

EXHIBIT “P”

1 (Curriculum Vitae marked Defendant's Exhibit U for  
2 identification.)

3 (CD marked Defendant's Exhibit V for identification.)

4 THE COURT: People ready to proceed?

5 MR. GLASS: Yes, we are, Your Honor.

6 THE COURT: Defense ready to proceed?

7 MS. EFFMAN: Yes.

8 (Whereupon, the jury entered the courtroom.)

9 THE COURT: Please be seated. Members of the  
10 jury, we had a few technical difficulties, and that was  
11 the cause for the delay this morning. So, I apologize for  
12 that. At this time, the defense may call their next  
13 witness.

14 MS. EFFMAN: I call Dr. Jan Leestma.

15 JAN E. LEESTMA, M.D., after first having been duly sworn by the  
16 Clerk of the Court, was examined and testified as follows:

17 THE CLERK: The sworn witness is Jan E. Leestma,  
18 L-E-E-S-T-M-A.

19 MS. EFFMAN: Judge, as a preliminary matter, the  
20 People are not going to have any objection based on  
21 foundation for moving into evidence certain pieces of  
22 evidence; Defendant's R, which are gram stain slides; a  
23 CD, Defendant's V.

24 THE COURT: V, you said?

25 MS. EFFMAN: V, subject to certain redactions.

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A000001934

(Leestma - Defendant - Direct)

2064

1 And also will be moving in Defendant's P, which are the  
2 obstetric records of Wilhemina Hicks.

3 THE COURT: Do you want to offer those in  
4 evidence at this time?

5 MS. EFFMAN: Yes.

6 THE COURT: People's position?

7 MS. BOOK: That's correct, Your Honor.

8 MR. GLASS: Was it P?

9 MS. EFFMAN: P, R and V.

10 MS. BOOK: No objection, Your Honor.

11 THE COURT: Defendant's P, R and V are received  
12 in evidence without objection.

13 (Defendant's Exhibits P, R and V marked for identification  
14 received in evidence and marked Defendant's Exhibits P, R and V  
15 in evidence.)

16 **DIRECT EXAMINATION**

17 **BY MS. EFFMAN:**

18 Q. Good morning, Dr. Leestma.

19 A. Good morning.

20 Q. Would you please state your full name for the record?

21 A. Jan Edward Leestma, L-E-E-S-T-M-A.

22 Q. And where do you currently live?

23 A. I live in Chicago, Illinois.

24 Q. And what is your profession?

25 A. I'm a medical doctor, a neuropathologist.

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1 Q. And can you tell the jury, what is a pathologist?

2 A. A pathologist is a medical specialist usually. It's  
3 a recognized medical specialist, and the work that the  
4 pathologist does is to understand the mechanisms of human  
5 disease; that is, how a bug might kill you or affect tissues in  
6 the body, how a cancer behaves, how it starts, how it plays  
7 itself out, how it may bring the end of life. Every form of  
8 disease is fair game to the pathologist, and our job is to  
9 understand how it works, basically.

10 Q. Are you a licensed physician?

11 A. Yes, I am.

12 Q. In what states are you licensed in?

13 A. Illinois and Michigan.

14 Q. And how long have you been licensed to be a  
15 physician?

16 A. My Michigan license came first - I think it was  
17 1965 - a year after I graduated from medical school, and I was  
18 licensed in Illinois in 1971.

19 Q. Can you tell us a little bit about your educational  
20 background starting with college?

21 A. Sure. I attended Hope College in Holland, Michigan,  
22 graduating after four years in 1960 with a Bachelor of Arts  
23 degree in chemistry and biology, basically pre-med. I then  
24 went to the University of Michigan School of Medicine in Ann  
25 Arbor for four years, graduated in 1964 with an M.D. degree. I

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*(Leestma - Defendant - Direct)*

2066

1 then elected to pursue the study of pathology, and to that end,  
2 went to the University of Colorado School of Medicine Medical  
3 Center in Denver, where I began my training, which consisted of  
4 two years of so-called anatomic pathology, or general  
5 pathology. That's where I learned how to do an autopsy, look  
6 at surgical specimens that came from the operating room, and  
7 beginning my research career, as well. That program lasted two  
8 years, and that's what I did.

9 At the end of that time, I decided to continue on,  
10 but in neuropathology, or study of diseases - same deal - with  
11 the nervous system, and I began that in Denver, also. That was  
12 a two-year program. I took the first year in Denver and then  
13 transferred to the Albert Einstein College of Medicine in the  
14 Bronx, New York, where I completed training in 1968.

15 Q. Can you tell the jury, what is anatomic pathology?

16 A. Anatomic pathology is basically general pathology, as  
17 I have indicated, study of diseases of every organ in the body.

18 Q. Essentially, what is neuropathology?

19 A. Same thing, only just honing down on the diseases of  
20 the nervous system, the brain and spinal cord, things of that  
21 sort.

22 Q. Following your fellowship at the Albert Einstein  
23 Hospital in Bronx, what did you do next, Doctor?

24 A. We were in the midst of Vietnam conflict, and I was  
25 obligated to serve in the military, but I beat them to it, I

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*Official Senior Court Reporter*

1 guess, and volunteered and was assigned to the United States  
2 Air Force Medical Corps and was allowed to continue finishing  
3 my training, and at the end of that, I would be obligated to go  
4 on active duty, which I did. I came in as a captain of the Air  
5 Force Medical Corps and was detailed to the Armed Forces  
6 Institute of Pathology, and I joined the service organization  
7 on the campus of the Walter Reed Army Medical Center in  
8 Washington, and I was obligated for two years, but I served  
9 three. The first was doing genitourinary pathology, needed  
10 somebody there, so that's what you do. At the end of that  
11 time, I was able to transfer to the neuropathology section of  
12 that institute, where I served two more years, and I was  
13 honorably discharged with rank of major from the Air Force  
14 Medical Corps in the summer of 1971.

15 Q. Tell the jury --

16 THE COURT: Can I interrupt you for one second?

17 Ma'am, do you want to take a break?

18 TRIAL JUROR: I'm just having an asthma attack.

19 THE COURT: Okay. Do you wish us to take a

20 break?

21 TRIAL JUROR: I'm sorry, but yes.

22 THE COURT: That's okay. Don't be sorry. We

23 are going to take a break right now. Please do not

24 discuss the case amongst yourselves or form any opinion

25 about the case. We will take a break and come back

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(Leestma - Defendant - Direct)

2068

1 momentarily.

2 (Brief recess taken.)

3 (Whereupon, the jury entered the courtroom.)

4 THE COURT: Please be seated. Okay now? If you  
5 or anyone else at any point needs a break, don't  
6 apologize. Just get my attention, and we will take a  
7 break at any time. You may continue, Ms. Effman.

8 Q. Doctor, can you tell us what you did during your two  
9 years at the Armed Forces Institute, the last two years you  
10 were there? Would you tell the jury what you did during the  
11 last two years?

12 A. The job at the Armed Forces Institute?

13 Q. Yes.

14 A. As I indicated before, this institute now,  
15 unfortunately, has disbanded after 150 years. It was the main  
16 consultive agency for pathology issues for the Armed Forces;  
17 Army, Navy, Air Force, Public Health Service. That is, if  
18 there were a death someplace, a soldier or retired person,  
19 whatever, and there was some issues regarding the brain, and  
20 the local facility wanted to refer that for further  
21 consultation and diagnosis, it would come to the Armed Forces  
22 Institute and might land on my desk, in which case it could be  
23 an autopsy, trying to figure out what the process was,  
24 diagnosis. It could be a surgical specimen of a brain tumor or  
25 some such thing, or in the case of the GU, it could be a

Judy A. DelCogliano

Official Senior Court Reporter

A000001939

1       testicular tumor or a kidney tumor or something like that. So,  
2       my job and others in that branch were to offer those services.

3               They also expanded to the Veteran's Administration.  
4       So, we had quite a huge amount of material coming in, also from  
5       civilian hospitals all over the world desiring somebody to take  
6       a second look or a third look or whatever.

7               Q.   And while you were stationed, so to speak, in the  
8       D.C. area, were you affiliated with any hospitals there?

9               A.   Yes. I had volunteered for doing work at -- I would  
10       offer the similar services, teaching to the residents of the  
11       Walter Reed Army Medical Center. They had pathology residents  
12       in training there, and I would be involved in teaching them;  
13       went to the Bethesda Naval Hospital for the same purpose.  
14       There were several medical schools in Washington at the time.  
15       Most of them did not have a neuropathologist, so several of us  
16       would volunteer to go over and teach medical students, do a  
17       brain autopsy session, where we would demonstrate whatever was  
18       the finding there, and I also did service at the -- it was in  
19       transit at the time, but the Coroner's Office for the District  
20       of Columbia while I was there, as well.

21              Q.   And what schools did you teach at in the Washington,  
22       D.C., area?

23              A.   Howard University, George Washington University,  
24       Georgetown University.

25              Q.   After completing your military service and being

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*(Leestma - Defendant - Direct)*

2070

1       honorably discharged, what did you do next, Doctor?

2           A.   Well, after being released from the Service, I set  
3       about finding a job. I wanted to work in the academic world,  
4       and finally determined and was offered a position at  
5       Northwestern University School of Medicine in Chicago, where I  
6       live, as an Assistant Professor of Pathology and Neurology and  
7       Chief of Neuropathology.

8           Q.   And can you tell us what the general job duties were  
9       in that position?

10          A.   Well, basically, it falls into the service load,  
11       which means working with the autopsy service to provide my  
12       expertise; and to those kinds of cases, teaching residents on  
13       how to read slides, how to learn how to do the work of a  
14       pathologist, and then offering teaching to the residents in  
15       neurosurgery, neurology, pathology, sometimes other fields,  
16       even taught at the dental school and the nursing school  
17       sometimes; and so that would be the service and teaching load.  
18       And then I was expected to develop a research program, which I  
19       did, and received some National Institute of Health grants to  
20       pursue some of those studies.

21          Q.   And Doctor, how long were you employed through  
22       Northwestern?

23          A.   Let's see. I left Northwestern in 1985, after having  
24       been there, like, about 14 years, and I, at that point,  
25       switched to the University of Chicago, the Division of

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1 Biological Sciences and their medical school, as a full  
2 Professor of Pathology and Neurology and Associate Dean For  
3 Student Affairs and some academic programs.

4 Q. And what did you do in that capacity?

5 A. Primarily administrative. I did some teaching, very  
6 little, if any, service work. I was always there if somebody  
7 wanted to show me a case, but it was mostly administration  
8 regarding the admission of people to the medical school and the  
9 graduate programs in life science, like botany and biology and  
10 so forth, and providing the administrative backup for the  
11 students, financial aid and all that sort of business.

12 Q. And how long were you at the University of Chicago?

13 A. A couple of years.

14 Q. Where did you go next?

15 A. I went then to a neurosurgical hospital called the  
16 Chicago Institute of Neurosurgery and Neuroresearch as their  
17 Associate Medical Director and their neuropathologist, and I  
18 was with that organization for 13 or so years or more, and  
19 finally retired from that organization.

20 Q. In that organization, did you have occasion to do  
21 brain autopsies?

22 A. Yes, all the way along. I didn't do very much of  
23 that while I was at the University of Chicago. I had a  
24 parallel appointment some years before with the Cook County  
25 Medical Examiner's Office to act as their neuropathologist and

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*(Leestma - Defendant - Direct)*

2072

1 consultant, and I did that for 11 years, I think, but when I  
2 was at the Chicago Institute of Neurosurgery, I did a lot of  
3 administrative stuff, but also was probably in the operating  
4 room every day rendering diagnoses for brain tumors or whatever  
5 else happened; and if one of our patients should die, we had an  
6 autopsy permit. I would probably do the autopsy. So, a full  
7 service spectrum of things that I had always done, plus  
8 administration.

9 Q. Other than the hospitals you have mentioned in  
10 Washington, D.C., can you tell the jury what hospitals you have  
11 been affiliated with over the course of your career?

12 A. Yes. I don't know. I think I had, at least with the  
13 military -- I mean, there was no official affiliation, I don't  
14 think; I just went there. I was asked to be there. The other  
15 institutions were pretty much a voluntary situation, teaching  
16 and so forth at the coroner's office. I was paid for that  
17 procedure, for those cases that I did there, so I had some  
18 official appointment.

19 Q. And when you worked at the Cook County Medical  
20 Examiner's Office, that was in the capacity of coroner?

21 A. Yes. At the time, before I worked with them, it was  
22 a coroner's system; that is, the coroner was sometimes a  
23 physician, sometimes not, a political position, and that  
24 switched over to a medical examiner system, where a board  
25 certified forensic pathologist had to be at the office. And

*Judy A. DeCeglieano*  
*Official Senior Court Reporter*

A000001943

1 when that went in, I came in.

2 Q. How long were you at that job for?

3 A. I was there, I think, 11 years, 12 years, something  
4 like that.

5 Q. During the course of your career, have you been  
6 affiliated with Children's Memorial Hospital in Chicago?

7 A. Sure. The last two or three years of my tenure at  
8 Northwestern was spent as Chief of Neuropathology at the  
9 Children's Memorial Hospital, where I did everything I did  
10 every place else, only just restricted to the pediatric cases.

11 Q. What does your current practice consist of?

12 A. I'm retired from hospital practice, and I maintain my  
13 own office, where I do consultations of forensic issues that  
14 relate to the brain and nervous system, and that may involve  
15 doing an autopsy from time to time. It may involve, more often  
16 than not, examining case materials, microscopic slides,  
17 photographs, the body of cases and being prepared to offer  
18 opinions and insights into whatever the issues are.

19 Q. Are you board certified?

20 A. Am I what?

21 Q. Are you board certified?

22 A. Oh, yes, sure.

23 Q. And in what areas are you board certified?

24 A. I have certifications in anatomic pathology and  
25 neuropathology from the American Board of Pathology.

Judy A. DelCogliano  
Official Senior Court Reporter



(Leestma - Defendant - Direct)

2074

1 Q. And what year did you obtain those certifications?

2 A. 1970.

3 Q. Do you hold any memberships in any professional  
4 societies?

5 A. Yes.

6 Q. Tell the jury about some of those, please.

7 A. I'm a member of the American Association of  
8 Neuropathologists, and have been for probably going on 40 years  
9 now - that's the main one - and the international association  
10 which flows from that. I'm a member and fellow of the American  
11 Academy of Forensic Sciences, and I have some other  
12 memberships, but those are the main ones.

13 Q. Have you held any editorial positions?

14 A. Yes.

15 Q. During the course of your career?

16 A. Yes.

17 Q. Tell the jury about some of those, please.

18 A. Some of the early ones had to do with a  
19 publication -- I don't think it exists anymore, but it's called  
20 the Yearbook of Pathology, and it was one of these things that,  
21 you know, what happened, what was published in the field of  
22 pathology in the course of a year, and then the important  
23 articles were abstracted, which I did, with respect to  
24 neuropathology, eye, forensic, and there may have been one  
25 other field; so, I did that for five or six years. And then,

Judy A. DelCogliano  
Official Senior Court Reporter

A000001945

1 all the while, frequently being asked by, on an ad hoc basis,  
2 by editors of other journals to review articles and  
3 manuscripts, and I guess for five or six years now, I have been  
4 on the Editorial Board of the American Journal of Forensic  
5 Medicine and Pathology here in the United States.

6 Q. Have you authored any articles in the area of  
7 pathology, anatomic pathology or neuropathology?

8 A. Yes. I think we are approaching about 103 or 104 now  
9 that represent articles in medical journals or book chapters or  
10 books or anything that's publishable or, at least, out there  
11 and available.

12 Q. And can you name some of the journals you have been  
13 published in?

14 A. Well, let's see. I was published in an article or  
15 two in cancer, I guess, in a number of the neuropathology  
16 journals. Let me think. They are published, and then they go  
17 out there. American Journal of Forensic Medicine is one,  
18 Journal of Forensic Sciences; a spectrum of journals that  
19 relate to the interests that I had at the time.

20 Q. Have you published any books?

21 A. Yes.

22 Q. Can you tell the jury about that, please?

23 A. When I was finishing my training and residency, I  
24 published, co-authored a book that was called Histologic  
25 Patterns in Tumor Diagnosis, meaning that there are certain

Judy A. DelCogliano  
Official Senior Court Reporter

1 things under the microscope that sort of immediately click or  
2 should for a diagnosis, and published that book as an aid to  
3 young pathologists getting started, the craft, really, of how  
4 to do surgical pathology. I did some book chapters for a  
5 variety of textbooks, one of which is -- one of the classics,  
6 Anderson's Textbook of Pathology, co-authored a couple of  
7 chapters in there on the genitourinary system, and there have  
8 been a number of other book chapters. The primary book that I  
9 virtually wrote was called Forensic Neuropathology, and that  
10 was published 20 years ago in 1988, and then there's been a new  
11 version of it. I see some copies sitting here, of the recent  
12 version of that book, a second edition that came out with a  
13 publication date of 2009.

14 Q. Is this the book, Doctor?

15 A. That's the one you have in your hand. I have done a  
16 number of chapters on a book that, again, is coming into a  
17 second edition called Sudden Death and Epilepsy, and I did a  
18 number of chapters in the first one 20 years ago, and now the  
19 second one is coming out, and I will co-edit that volume, as  
20 well.

21 Q. Doctor, are you a member of any boards?

22 A. Yes, a number of boards. I have been a member of the  
23 Horizon Hospice Organization in Chicago, which is the first  
24 hospice organization in the Chicago-land area. I'm no longer  
25 active on that board but interested. I have been on the board

Judy A. DelCogliano  
Official Senior Court Reporter

1 of the Juvenile Protective Association of Chicago for probably  
2 25 years or more now.

3 Q. What are your duties on that board, Doctor?

4 A. What is it?

5 Q. What is it, generally?

6 A. Well, the JPA, as it's called, is a direct service  
7 organization to the families of abused and neglected children,  
8 acting as a friend of the court and working with the Department  
9 of Children and Family Services to try to keep families  
10 together and to provide direct social services to those  
11 families to help them with that, and I have been involved with  
12 that organization for quite awhile.

13 Q. Now, Doctor, have you been qualified as an expert in  
14 pathology and neuropathology?

15 A. Yes.

16 Q. How many times have you testified in that subject  
17 matter?

18 A. Well, in giving -- testifying in court proceedings  
19 such as this one, probably a couple of hundred times. In  
20 depositions and things that may or may not come into trial,  
21 another couple of hundred. So, it's probably been three or 400  
22 times, something like that.

23 Q. In how many states have you testified in?

24 A. I think it's over 40 now. Every now and again, I  
25 have to go through it, but 40 to 42 states in the Union.

Judy A. DelCogliano  
Official Senior Court Reporter

(Leestma - Defendant - Direct)

2078

1 Q. In all the states, were you qualified as an expert in  
2 pathology or neuropathology?

3 A. One way or another, depending on the issue of the  
4 case, yes.

5 Q. And have you testified before in New York State?

6 A. Yes, I have.

7 Q. Have you ever testified for the prosecution?

8 A. Yes.

9 Q. In what office have you testified for or offices?

10 A. The most recent ones were the District Attorney's  
11 Office or State's Attorney in San Diego, California.

12 Q. And how many brain autopsies have you performed  
13 during the course of your 40 plus year career?

14 A. My calculation is about 20,000 brain examinations,  
15 brain autopsies. That's about as close as I can come.

16 Q. And of those 20,000 brain autopsies that you  
17 performed, do you have an estimate how many of those involved  
18 children?

19 A. It would be an estimate only, but I imagine a couple  
20 of thousand, I suppose.

21 Q. I'd like to show you what's been marked as  
22 Defendant's U for identification. I ask if you recognize that.

23 A. Yes, I do.

24 Q. And what is Defendant's U?

25 A. That is my curriculum vitae and it is, as far as I

Judy A. DelCogliano  
Official Senior Court Reporter



1 know, up to date to about now.

2 Q. Does that curriculum vitae fairly and accurately  
3 represent your educational work and background in  
4 neuropathology and anatomical pathology?

5 A. It's all there, all the positions I have occupied. I  
6 didn't include abstracts and speeches given or talks given.  
7 That would -- any publications that are there are those that  
8 are regular publications and not just, you know, press pieces  
9 or something like that.

10 MS. EFFMAN: At this time, I move Defendant's U  
11 into evidence.

12 MS. BOOK: Your Honor, the People would object,  
13 as this is bolstering and cumulative of what this witness  
14 has already testified to.

15 THE COURT: Defendant's U is received in  
16 evidence over objection by the People.

17 (Defendant's Exhibit U marked for identification received in  
18 evidence and marked Defendant's Exhibit U in evidence.)

19 Q. Turning your attention to this case, Doctor, did you  
20 have occasion to review medical records concerning [REDACTED] and

21 [REDACTED]

22 A. Yes, I did.

23 Q. Can you tell the jury what records you have reviewed?

24 A. I have no idea if it's the complete medical records  
25 or not. I have no way of knowing, but I have some records

Judy A. DeCeglieano  
Official Senior Court Reporter

*(Leestma - Defendant - Direct)*

2080

1 regarding the birth of both of these babies and some followup  
2 in terms of well baby and pediatric visits. I have medical  
3 records that relate to the last -- the hospitalization for the  
4 baby in question. And as part of those medical records, I  
5 received a disc that had images of a CT scan done on, if I'm  
6 not incorrect, 9/21. I think it's 2007. I have autopsy  
7 documents, reports related to the autopsy of the baby. There  
8 are photographs of -- some scene photographs that were  
9 provided, as well as photographs of the baby before, during and  
10 after the autopsy. I have, then, autopsy tissue slides that  
11 were prepared at the time of the autopsy and a couple of others  
12 that I requested to be prepared, and I think that's it.

13 Q. So we are clear, Doctor, Defendant's R in evidence,  
14 does that reflect the microscopic slides that you requested to  
15 review as part of this case?

16 A. Yes. It looks like it. I would have to -- I made  
17 images of these, if I could lay them out side-by-side to be  
18 sure every slide is there, but it looks like it's my writing on  
19 the bag that indicates the name of the case, and this was  
20 returned to you not long ago.

21 Q. And at some point, Doctor, did you take pictures of  
22 these slides that you reviewed?

23 A. Of some selected areas. I have a digital camera on  
24 my microscope that I could -- if there was some particular  
25 finding I wanted to immortalize, I could take a picture of it

*Judy A. DelCogliano*  
*Official Senior Court Reporter*

A000001951

1 and then make prints or do whatever I wanted with them later.

2 Q. Did you, in fact, take some photographs of some of  
3 the slides that you reviewed?

4 A. I did.

5 Q. And, in fact, did you place them on a CD that's in  
6 evidence now as Defendant's V, which is sitting in a laptop  
7 over there?

8 A. It's in my laptop in the form of a Power Point  
9 presentation that has some very selected microphotographs and  
10 so forth.

11 Q. And apart from any picture of a CT scan, are the rest  
12 of the slides pictured on the CD, are those all things that  
13 came from the autopsy?

14 A. That's right. They are direct representations of  
15 portions of the slides that are in that plastic bag.

16 Q. Doctor, if I told you that the child went to the  
17 hospital on September 21, 2008, and that's when the CAT scan  
18 took place, would that be accurate?

19 A. That's true. I think it was done a few hours after  
20 admission of the child.

21 Q. Did you also have for your review the obstetrical  
22 records of the mother?

23 A. Correct.

24 Q. And when we refer to hospitalizations, did you have  
25 the opportunity to review records from two different hospitals

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*(Leestma - Defendant - Direct)*

2082

1       that saw this child on September 21, 2008?

2           A.   Yes.  I think that the child was brought first to a  
3       local hospital and then brought -- transferred to a larger  
4       institution, and I have records from both of those.

5           Q.   And do your records also include the birth records of  
6       both babies?

7           A.   Yes.  There was -- I'm somewhat confused by it  
8       because, apparently, the identity of the twins got mixed and  
9       switched and, so, I don't know exactly who is who, and maybe  
10      nobody does, but there were records regarding both of those  
11      babies.

12          Q.   As part of your review, did you also receive a copy  
13      of the pathologist's report in this case?

14          A.   Yes.

15          Q.   Are these records and materials the kind of materials  
16      ordinarily relied upon by experts in your field of  
17      neuropathology and anatomic pathology?

18          A.   These are the kinds of things that we examine all the  
19      time, either with a contemporaneous case or one that we are  
20      called on consultation.

21          Q.   And are the records and materials the kind of  
22      materials that are accepted in your profession as reliable in  
23      forming professional opinions?

24          A.   Yes.  There's a gradation of reliability, and that  
25      has to do, by extension, with the objectivity.  In other words,

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*Official Senior Court Reporter*

1 a good example of that is, if I had the actual brain sitting in  
2 a crock full of formaldehyde, that's as objective as it gets.  
3 I mean, whatever is there can't be messed with, and nobody can  
4 do that. The next best things are photographs of specimens and  
5 so forth; that, of course, you're dependent upon the technical  
6 quality, but more or less, those are things that can't be  
7 fudged. It's the straight information. Microscopic tissue  
8 slides are also very, very objective and reliable, to the  
9 extent to which you can interpret what's there, and you are  
10 limited somewhat by the sampling that the person ahead of you,  
11 the pathologist who did the autopsy made; so if they didn't  
12 take a slide of something, obviously, you can't examine it, but  
13 whatever you do have is objective and the best kind of evidence  
14 you can look at.

15 Another level would be radiologic studies, when you  
16 have the actual disc or the films, whatever, to look at. You  
17 are limited only by the technique that's used and the method.  
18 If it's 80 percent effective, then you probably can't do any  
19 better than that, but that's subjective and can't be messed  
20 with by anyone.

21 Then you get onto medical records and reports.  
22 Autopsy reports are through the eyes of whoever did the  
23 autopsy, and with -- it may be reliable or it may not be. The  
24 thing about the autopsy thing is that whatever is said in the  
25 report, you can go back to the pictures, if they exist, or the

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Judy A. DelCogliano  
Official Senior Court Reporter

(Leestma - Defendant - Direct)

2084

1       microscopic slides and have a check and balance there. Medical  
2       records may be reliable. It's the only thing you have, but  
3       there are sources of error and mistake and omissions and so  
4       forth that can find their way into that. Again, you do have  
5       some opportunity, if you have better evidence, to compare and  
6       see whether the things are corresponding or maybe they don't.

7               Then you get down the chain where you end up with  
8       witness accounts and interviews and so forth and so on. Those,  
9       you have to take them for what they are, contemporaneous  
10      accounts by somebody which may or may not be complete, truthful  
11      correct or whatever. And, so, there is kind of a pyramid, if  
12      you will, of reliability, and I have tried to outline what that  
13      is.

14             Q.    Doctor, fair to say that the records you were  
15      provided with as part of this case, the slides, the autopsy  
16      report, the microscopic sections, all the records you reviewed  
17      are documents that people in your profession rely upon  
18      regularly to form opinions?

19             A.    Absolutely, right.

20             Q.    And Doctor, based on your review of the records,  
21      materials, along with your education and experience, do you  
22      have an opinion, to a reasonable degree of medical certainty,  
23      as to the cause -- strike that. To the state of this child's  
24      health upon arrival at Samaritan?

25             A.    I do.

Judy A. DelCogliano  
Official Senior Court Reporter

A000001955

1 Q. And can you please tell us what your opinion is?

2 A. In short, this was a sick child who, in all  
3 likelihood, was suffering from a bacterial infection of the  
4 respiratory tract and, perhaps, brain at that time.

5 Q. Based on your review of the records and materials and  
6 your educational experience, do you have an opinion, to a  
7 reasonable degree of medical certainty, as to the prognosis for  
8 this child upon his arrival at Samaritan?

9 MS. BOOK: Your Honor, may I voir dire before  
10 the witness answers?

11 THE COURT: Yes, you may.

12 VOIR DIRE EXAMINATION

13 BY MS. BOOK:

14 Q. Good morning, Dr. Leestma.

15 A.. Good morning.

16 Q. My name is Christa Book. I work for the DA's Office.  
17 Now, Dr. Leestma, you are not a board certified forensic  
18 pathologist; are you?

19 A. I am not.

20 Q. And what is the difference between a forensic  
21 pathologist and a regular pathologist?

22 A. Forensic pathologist would be one who classically  
23 works in the context of a coroner's or medical examiner's  
24 office, or in any case, is engaged in the generation of cause  
25 and manner of death documents, death certificates, whatever the

Judy A. DeCeglieano  
Official Senior Court Reporter

*(Leestma - Defendant - Voir Dire)*

2086

1 local jurisdiction requires. An ordinary or a hospital  
2 pathologist could certainly do that work, and frequently they  
3 do, if deputized for that purpose, but the focus is different;  
4 cause and manner of death determination, forensic, diagnostic,  
5 basically medical conditions by a hospital or general  
6 pathologist.

7 Q. And there's nothing that would have prevented you  
8 from taking those boards; right?

9 A. No, absolutely not, just my decision not to spend an  
10 additional year of training to do it.

11 Q. Okay. And you are not a board certified forensic  
12 neuropathologist, neither; are you?

13 A. There is no such board. I'm about as qualified, I  
14 guess, as is possible, but forensic neuropathology is not --  
15 the American Board does not have a board certification for  
16 that.

17 Q. Are you a board certified ophthalmologist?

18 A. No.

19 Q. So, you don't have the qualifications to look into  
20 someone's eyes and diagnose them; correct?

21 A. Probably with an ophthalmoscope, no; a microscopic  
22 slide of the eye, probably, I am, yes.

23 Q. Have you ever looked into someone's eyes and  
24 diagnosed them?

25 A. Excuse me?

*Judy A. DelCogliano*  
*Official Senior Court Reporter*

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1 Q. Have you ever looked into a live person's eyes and  
2 diagnosed them?

3 A. Sure. When I was a medical student, I enjoyed  
4 ophthalmology a lot and took an extra rotation, actually, in  
5 doing that, but not since.

6 Q. Okay. So, it would be fair to say that it's been  
7 45 years since you have done that, then?

8 A. No. That's not my field of expertise.

9 Q. So, fair to say it's been 45 years since you have  
10 done that?

11 A. Yes.

12 Q. And you are not a board certified radiologist;  
13 correct?

14 A. What kind?

15 Q. A board certified radiologist?

16 A. No, no.

17 Q. And you are not a neurosurgeon?

18 A. No.

19 Q. And you are not a certified pediatrician?

20 A. No, I'm not.

21 Q. And have you ever been declared an expert in the area  
22 of pediatrics?

23 A. No.

24 Q. And did you know there's going to be a board  
25 certification for pediatric child abuse, the first test --

Judy A. DelCogliano

Official Senior Court Reporter

1           A. I'm aware that there is a certification, either in  
2 progress or about to be done. There is by -- I think the  
3 American Academy of Pediatrics, but I'm not sure.

4           Q. And the first test is going to be this November. Did  
5 you know that?

6           A. It is what?

7           Q. It is going to be this November. Did you know that?

8           A. I knew it was either on now or going to be.

9           Q. You are not going to sit for that test?

10          A. I certainly would not, no.

11          Q. And you are not one who specializes in infant  
12 neuropathology; are you?

13          A. It's part of my training and experience. I'm  
14 certainly qualified to do that, and I have.

15          Q. Okay. Well, have you ever treated a live child for  
16 infant neuropathology?

17          A. That I would be involved in dealing with live  
18 children? In the context of going to the operating room while  
19 they are alive, being operated on and giving diagnosis for  
20 whatever the surgeon took out, sure.

21          Q. When is the last time you did that?

22          A. Probably about four years ago.

23          Q. And have you ever had a live child as a patient?

24          A. My kids. That's about it.

25          Q. So, other than your children, would it be fair to say

Judy A. DelCogliano  
Official Senior Court Reporter

1     you have never treated a live child?

2             A.   No, no.  I have never done that, except as a student,  
3     and haven't done so since.

4             Q.   And you graduated medical school in 1964; right?

5             A.   That's right.

6             Q.   So, it's been 45 years since you've treated a live  
7     child, other than a member of your own family?

8             A.   That's fair to say, yes.

9             Q.   And you have never worked on a trauma unit, where  
10    children come in after being in car accidents or with head  
11    injuries; have you?

12            A.   I did as a student working in the pediatric emergency  
13    room, or whatever they called it at the time.  There were  
14    children that would come in from accidents and, presumably,  
15    other causes that I saw.

16            Q.   And when was that?

17            A.   That would be probably 1964, the last year of my  
18    medical school.

19            Q.   So, it would be fair to say that the last time you  
20    worked on a trauma unit with children was 45 years ago?

21            A.   Yes.  That's fair.

22            Q.   And have you ever admitted a child into a hospital?

23            A.   No.

24            Q.   Have you ever admitted any patient into the hospital?

25            A.   Yes.

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Judy A. DeCeglieano  
Official Senior Court Reporter



*(Leestma - Defendant - Voir Dire)*

2090

1 Q. And when was the last time you have done that?

2 A. When I was a pathology resident in Denver, for a  
3 period of time, my paycheck came from the Veteran's  
4 Administration, and I had to stand admitting officer duties  
5 there once every few months.

6 Q. What year was that?

7 A. Oh, goodness. That would be anywhere from 1964 to  
8 1967, and there might be people that would come in on my watch  
9 that I would admit to the hospital under those circumstances.  
10 I wouldn't treat them.

11 Q. So, taking 1967, it would be 42 years, then, since  
12 you've done that?

13 A. Right.

14 Q. And would you agree with me that you are not a  
15 treatment provider?

16 A. I am not a treating physician, no, never have been.

17 Q. It's not your job to treat children with existing  
18 subdural hematomas; correct?

19 A. No, it's not.

20 Q. And, in fact, you have never treated an infant with  
21 existing subdural hematoma; have you?

22 A. I don't think that I have.

23 Q. You consult on autopsies; correct?

24 A. My interaction with pediatric disease would be by way  
25 of surgical specimens and an autopsy circumstance.

*Judy A. DelCogliano*  
*Official Senior Court Reporter*

A000001961

1 Q. So, that would be a consulting position; correct?

2 A. I suppose so, although I would have full -- I would  
3 generate an autopsy report and, in a sense, the buck would stop  
4 with me, but I could be a consultant, sure.

5 Q. Well, you would generate an autopsy report on that  
6 one specific area you looked at; correct?

7 A. That's correct.

8 Q. Okay. Not on the autopsy of the entire body?

9 A. Oh, I could do it for the entire autopsy, sure. I  
10 have done that many times.

11 Q. Okay. When was the last time you did that?

12 A. I don't know. When I was at Children's Memorial  
13 Hospital from, say, 1982 to '85, I frequently supervised the  
14 autopsy service, and senior staff people, such as myself,  
15 rarely do the autopsies. We supervise the residents who do  
16 them, and I don't know how many I was involved with.

17 Q. Okay. So, fair to say it's been about 24 years since  
18 you performed an entire autopsy?

19 A. No. That's not true. The last autopsy I was  
20 involved with of a general character was probably five years  
21 ago, and I happen to be in New Zealand, and a colleague of mine  
22 was on call, and we did a case together.

23 Q. Did you do the entire autopsy?

24 A. Yes. I was doing parts. He did part and I did part.

25 Q. Who signed the death certificate?

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Judy A. DelCogliano  
Official Senior Court Reporter

*(Leestma - Defendant - Voir Dire)*

2092

1           A. Not me, the other -- the pathologist who was  
2           deputized to do that, Dr. David Taylor.

3           Q. So, not being a certified forensic pathologist, it's  
4           not really in your job description to sign the death  
5           certificate that determines the cause of death?

6           A. Generally not.

7           Q. And during the course of your career, how many full  
8           autopsies, meaning from start to finish, head to toe, did you  
9           do determining the cause and manner of death?

10          A. Maybe half a dozen or so, where that was the issue,  
11          and I was authorized, deputized to generate that death  
12          certificate.

13          Q. So, fair to say about six over the course of your  
14          career?

15          A. Something like that.

16          Q. And one of those was someone who was executed;  
17          correct?

18          A. Yes. There was a judicial execution in Colorado some  
19          years back, and I was the pathologist of record for that.

20          Q. So, not too much mystery about the cause of death  
21          there; fair to say?

22          A. No, there was not.

23          Q. Okay. Have you ever performed a full head to toe  
24          autopsy on a child?

25          A. Sure.

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*Judy A. DeCagliano**Official Senior Court Reporter*

A000001963

1 Q. Okay. And when was that?

2 A. In the course of my 20, 30 some years as an academic  
3 pathologist. We did it in my residency. Pediatric autopsies  
4 were part of the work when I became a staff person in Chicago.  
5 Most of the pediatric autopsies were done at the Children's  
6 Hospital. When I became the neuropathologist there, I did some  
7 full autopsies myself there; more often than not, with a  
8 resident or supervising them.

9 Q. Have you ever signed a death certificate for a child?

10 A. I doubt that I have. I don't think so.

11 Q. And in your 11 years as assistant medical examiner,  
12 did you ever sign a death certificate during that period of  
13 time?

14 A. No. I was the secondary pathologist under those  
15 circumstances assisting the coroner's pathologist or M.E.'s  
16 pathologist.

17 Q. So, for 11 years, would it be fair to say that the  
18 primary part of your duty was to come in one or two days a week  
19 and look at slides of brains or portions of brains?

20 A. In terms of the forensic service, I would come in  
21 part of a day, a week, to do that at the Cook County Medical  
22 Examiner's Office. As a part of my other job, whatever the  
23 caseload was; I might be in the autopsy room every day. It  
24 might be a week or more, would separate that.

25 Q. Would it be fair to say you weren't doing head to toe

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Judy A. DelCogliano  
Official Senior Court Reporter

1 autopsies in determining the cause of death and signing death  
2 certificates?

3 A. That's right. I already indicated, functioning as  
4 the coroner's physician or deputized, I didn't have occasion to  
5 do that. I'm perfectly qualified to do so, but the occasions  
6 only arose about a half dozen times or so.

7 Q. And when was the last time that you prepared or  
8 conducted an autopsy as a clinician, not being related to being  
9 retained as an expert on a particular case?

10 A. While I was -- when I was still doing hospital  
11 practice, which has been about four years or so ago; then there  
12 would be no retention. I would be the hospital pathologist,  
13 and I would generate a report. That was that. Ever since  
14 then, whenever autopsies would occur, most often, it would be  
15 in a consultative role.

16 Q. Okay. So, when you say that your current job now,  
17 since you retired from the hospital -- correct me if I'm wrong.  
18 But I believe you said to Ms. Effman that your current job now  
19 may involve an autopsy from time to time?

20 A. Occasionally.

21 Q. Has it involved one in your job as a consultant?

22 A. Sure.

23 Q. A full autopsy?

24 A. Sure.

25 Q. And when was the last time you did that as a

Judy A. DelCogliano

Official Senior Court Reporter



1 consultant?

2 A. Oh, boy, that would be probably five or six years  
3 ago. There was a period of time where a number of exhumation  
4 autopsies needed to be done, and I did them. I think that  
5 would be the most recent context.

6 Q. So, since you have retired from your job and become a  
7 consultant, it's fair to say you haven't done any full  
8 autopsies; correct?

9 A. No. I have no facility to do them. I could, but I  
10 haven't.

11 Q. Okay. And even with the exhumation project that you  
12 worked on, is it accurate to say you have only done about a  
13 dozen full head to toe autopsies over the course of your  
14 career?

15 A. No. I have done hundreds of autopsies, full,  
16 complete autopsies and generated the reports.

17 Q. And did you sign the death certificate?

18 A. No.

19 Q. Did you determine the cause and manner of death in  
20 the head to toe autopsy?

21 A. I determined the medical cause of death. Usually,  
22 under those circumstances in hospital, the physician of record  
23 would be signing the death certificate. The signing of the  
24 death certificate by the hospital pathologist may occur, but it  
25 usually doesn't. Somebody else does that.

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Judy A. DelCogliano  
Official Senior Court Reporter

*(Leestma - Defendant - Voir Dire)*

2096

1 Q. Doctor, do you recall testifying in a case, the  
2 People of the State of California versus Ronnie Morinda  
3 (phonetic) in 2002?

4 A. What's the last name of the case?

5 Q. Morinda?

6 A. I remember the name, but I don't remember the case.

7 Q. The defense attorney would have been a John May?

8 A. May was the defense attorney. Okay.

9 Q. And if I told you that, in that case, you were asked  
10 by the prosecuting attorney, "I'm distinguishing between  
11 looking at the slides and actually doing the full forensic  
12 autopsy. I understand your answer to be about five or six."  
13 And you said, "That's probably true. The entire -- doing the  
14 body and everything and being responsible for the cause and  
15 manner of death. That's true." Would you disagree with that?

16 A. No. That's what I thought I have been answering  
17 before.

18 Q. So, doing the full forensic autopsy, not looking at  
19 slides, looking at the body and determining the cause of death,  
20 you have done about five or six. Is that correct?

21 A. Where I was the guy who signed the death certificate,  
22 yes.

23 Q. Well, you weren't talking about death certificates  
24 here; were you? You were talking about -- he was  
25 distinguishing between looking at slides and actually doing the

*Judy A. DelCogliano*  
*Official Senior Court Reporter*

A000001967

1 full forensic autopsy, and your answer was five or six. Is  
2 that correct?

3 A. Yes, to determine the cause and manner of death,  
4 correct.

5 Q. And for the most part now, Doctor, would it be fair  
6 to say that the majority of your work is looking at slides of  
7 brains or portions of cutting of brains?

8 A. In current practice, yes. I don't look at that many  
9 brain specimens any more. It would be slides, photographs,  
10 documents and so forth.

11 Q. And you are not there when the actual autopsy is  
12 performed; correct?

13 A. Most often not.

14 Q. And you are not actually doing any of the cuttings  
15 yourself. Is that correct?

16 A. That's correct.

17 MS. BOOK: Thank you, Your Honor.

18 THE COURT: Ms. Effman, you may proceed.

19 MS. EFFMAN: Thank you, Judge.

20 **DIRECT EXAMINATION**

21 **BY MS. EFFMAN: (Continuing)**

22 Q. Doctor, based on your review of the records and  
23 materials in this case, do you have an opinion, to a reasonabl  
24 degree of medical certainty, as to the prognosis for this chil  
25 when he arrived at Samaritan Hospital on the morning of

Judy A. DelCogliano  
Official Senior Court Reporter



*(Leestma - Defendant - Direct)*

2098

1 September 21, 2008?

2 A. Yes.

3 Q. And what is your prognosis? What's your opinion as  
4 to the prognosis for this child?

5 A. Given what emerged from laboratory studies and other  
6 studies, it would be grave. It would be very, very serious.

7 Q. And what do you base that opinion on?

8 A. The opinion is based on a number of facts that  
9 emerged. The child was shown to have streptococcus bacteria in  
10 his blood. That's a very serious finding. At autopsy, it  
11 became evident that this child had meningitis, had pus  
12 collections over an older fluid collection in the brain, had  
13 abscesses or cellulitis - that's a technical term - of  
14 bacterial infection in the soft tissues around the eye or eyes.  
15 Those are -- and then, of course, pneumonia with -- most likely  
16 due to the pneumococcal organism. This is a disseminated  
17 fulminant form of bacterial infection which has an extremely  
18 high mortality rate once it's recognized.

19 Q. Doctor, what, if any, health problems did the Thomas  
20 baby or [REDACTED] [REDACTED] as the records are entitled, have at  
21 Samaritan Hospital?

22 A. Well, upon -- you know, this is like peeling an  
23 onion. You take the first layer off and you see what's there,  
24 and as more studies come in, you get a fuller picture. It was  
25 quite clear that this child was in terrible shape coming into

*Judy A. DelCogliano*  
*Official Senior Court Reporter*

A000001969

1 the hospital, comatose, not breathing with, ultimately,  
2 bacteria in the blood, shock, basically, low blood pressure, a  
3 number of other findings. And, so, this child was desperately  
4 ill, and then it turns out that there's other things going on;  
5 namely, this child has bilateral fluid collections over the  
6 brain that are chronic and go back a very long time. And,  
7 eventually, the child was found to have hemorrhage in the  
8 retina of the eye and other things, but it would be -- the  
9 general state of shock, largely due to bacterial infection,  
10 played over the fact that this child has pretty large fluid  
11 collections of material over the brain, which is a stressful  
12 situation at best.

13 Q. Now, Doctor, what is the significance of a child  
14 having a blood pressure in the 50's, dropping into the 40's at  
15 Samaritan Hospital?

16 A. It's shock.

17 Q. And Doctor, what is the significance of having a  
18 white blood cell count of a thousand that drops to 500 at  
19 Albany Medical Center?

20 A. That is -- in the context of this case, says,  
21 basically, the body is being overwhelmed by an infection that  
22 the bone marrow can't respond to any more. The white blood  
23 cells are being mobilized and being killed someplace. They are  
24 being consumed. So, this is a very serious turn of events.

25 Q. What is the significance of having a platelet count

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Judy A. DelCogliano  
Official Senior Court Reporter

*(Leestma - Defendant - Direct)*

2100

1 at Samaritan Hospital of 115,000 that thereafter drops to  
2 44,000 and 29,000 at Albany Medical Center?

3 A. This is what I would call a consumptive coagulopathy.  
4 In other words -- it's a lot of words, but it means that these  
5 blood platelets are being consumed in making blood clots  
6 someplace, and they are being taken out of the blood, and that  
7 is a situation that is a prelude or a part of the general  
8 picture of something called coagulopathy, meaning that there's  
9 a teeter-totter, if I can be permitted to say, of clotting and  
10 non-clotting in the blood - all of us - and when this  
11 teeter-totter tips one way down, and clotting is occurring for  
12 whatever reasons somewhere in the body, then what happens is  
13 that this clotting process may consume the products that make  
14 blood clots, rendering the blood then thin and able to bleed in  
15 various places that it would not normally do that.

16 Q. Would that be called coagulopathy, Doctor?

17 A. Yes. There's a number of terms for this. Sometimes  
18 the term disseminated intravascular coagulation, or DIC, is  
19 used. I prefer the broader term, coagulopathy, because it  
20 isn't specific. It just says this equilibrium is out of  
21 equilibrium, and it can mean various things and have various  
22 consequences.

23 Q. And with coagulopathy, how serious of a problem is  
24 that, if someone has problems with blood clotting?

25 A. The consequences of a coagulopathy? Is that what you

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*Judy A. DelCogliano*  
*Official Senior Court Reporter*

A000001971

1 want to know?

2 Q. Yes, Doctor.

3 A. Well, many times, this process may be proceeding and,  
4 outwardly, it's not evident. It becomes evident sometimes when  
5 you have bleeding around the intravenous sites, trivial wounds,  
6 bruises appear on the body that have no traumatic basis for  
7 them, apparently, bleeding in the gastrointestinal tract,  
8 bleeding into various organs, sometimes bleeding in the brain,  
9 bleeding in the eye, and this can become fulminant.

10 Another problem that can happen is that the  
11 coagulation of this blood can occur in blood vessels, in which  
12 case you clog them up. In the case of the brain, if you have a  
13 clot which is developing in veins that are supposed to be  
14 draining blood away from the brain, then you have the situation  
15 of blood coming into the brain but no way for it to get out, in  
16 which case bleeding and the rupture of blood vessels into the  
17 brain and its coverings can occur. So, this can be something  
18 that you don't suspect right away, and it can be like Niagara  
19 Falls; that it becomes a cascade to ultimately bring about the  
20 death of an individual.

21 Q. And Doctor, what's the significance of a finding of a  
22 temperature of 97.2 at Samaritan Hospital that drops down to  
23 94 degrees?

24 A. That's a grave finding if it's correct. In other  
25 words, you first have to ask the question how was that

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Judy A. DeCeglieano  
Official Senior Court Reporter

*(Leestma - Defendant - Direct)*

2102

1 measured, and if somebody just put a thermometer in the armpit,  
2 well that's a notoriously inaccurate way to do it. But if it's  
3 a bona fide way of measuring the temperature, it may mean,  
4 basically, you are witnessing a person in the process of dying.  
5 Their regulatory mechanisms can't keep body temperature up, and  
6 they are basically failing.

7 Q. What is the significance of having a blood sugar of  
8 50, Doctor, for a four-month-old infant?

9 A. This, again, may be a measure of the failing body.  
10 You always have to say did the child get some drug that is  
11 depressing the glucose level, but again, it's probably one more  
12 indicator that the systems are breaking down and death is  
13 approaching.

14 Q. Doctor, in the records of Albany Medical Center,  
15 there's an indication that the child was suffering from a  
16 condition called pancytopenia. What is the significance of  
17 that?

18 A. Well, pancytopenia means all the blood cell elements  
19 are depressed; while we know the white cells were, because the  
20 count showed that. Part of the platelet count might mean that  
21 they are being consumed and/or the blood, the bone marrow, is  
22 being stressed so much that it's not making the precursor cells  
23 that make platelets. So, it's a very dire situation that may  
24 have many causes but, again, it's part of this -- you are  
25 witnessing the decay and fragmentation of an organism here.

*Judy A. DelCogliano*  
*Official Senior Court Reporter*

A000001973



1 Q. What's the significance of the finding of the  
2 positive blood culture that was taken immediately upon this  
3 child's arrival at the Samaritan Hospital and it came back  
4 positive, Doctor, for streptococcus pneumoniae?

5 A. Bad situation. You have bugs in the blood or a  
6 bacteria in the blood, and that is a very serious, potentially  
7 life-threatening situation.

8 Q. What about the significance of notations in records  
9 at Samaritan Hospital and Albany Medical Center of symptoms of  
10 acute respiratory distress syndrome?

11 A. Again, this can be a symptom or an indicator of  
12 shock, not enough blood perfusing the lungs. The lungs don't  
13 like it, and they begin to shut down. So, respiratory distress  
14 is part of the multiorgan failure kind of scenario that happens  
15 when people are septic and in shock, and it's a dreaded  
16 complication, because it's just one more thing that the  
17 clinician might be trying to have to play catch-up to try to  
18 save this baby's life.

19 Q. Can you tell the jury, what is septic shock?

20 A. Sure. Basically, when you have bacteria in the  
21 blood, bacteria are liberating toxins and cause death of  
22 tissue. The release of these -- I guess you could say it's a  
23 little bit like smoke from a fire. It's toxic. It inhibits  
24 various bodily functions, interferes with cardiovascular  
25 activity and the maintenance of blood pressure, and it's a dir

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Judy A. DelCogliano

Official Senior Court Reporter

(Leestma - Defendant - Direct)

2104

1 situation.

2 Q. Is there any association or connection between septic  
3 shock and coagulopathy?

4 A. Yes.

5 Q. Would you please tell the jury about that?

6 A. One of the things that can upset this teeter-totter  
7 of clotting versus not clotting and this balance is the  
8 presence of bacterial toxins, high temperature and the products  
9 of bacterial infection, which is dead tissue and the fragments  
10 of that that are being absorbed in the body. That can produce  
11 these problems.

12 Q. What happens when coagulopathy takes place or occurs?

13 A. Pardon me?

14 Q. What happens when coagulopathy takes place?

15 A. Well, then, as I say, you first consume the products  
16 of coagulation, and that might end up with blood clots in blood  
17 vessels where you don't want them, in the brain and elsewhere,  
18 and then you end up with bleeding, and the bleeding can be a  
19 little bit, a lot, everywhere, nowhere.

20 Q. And when you have problems with coagulopathy, can  
21 that bleeding be widespread throughout the body?

22 A. Yes, it can.

23 Q. In fact, can you bleed anywhere in your body when you  
24 have a problem with coagulopathy?

25 A. That's true. Sometimes, in some cases, you end up

Judy A. DeCeglieano  
Official Senior Court Reporter

A000001975

1 with somebody that basically turns purple. Their skin is  
2 blotchy and covered with lots of places where little blood  
3 clots and bleeding have occurred in the skin. Sometimes that  
4 involves internal organs. If it involves the heart and major  
5 organs, then they shut down and that could kill you.

6 Q. Did you find any evidence in the records, in the  
7 autopsy report, of this child having problems with  
8 coagulopathy?

9 A. Yes. It's documented in the medical chart. The  
10 child was treated for it, or attempted to be treated for it,  
11 and it's in the autopsy, too.

12 Q. And what treatment was rendered for this particular  
13 problem?

14 A. An attempt is made to try to provide the absent  
15 coagulation proteins and things like that. One way they do  
16 that is to take plasma, blood plasma from a donor, get rid of  
17 the red blood cells and give them all of the things that are in  
18 the serum and plasma to redress that, and that was attempted.

19 Q. What evidence did you find of this child -- where is  
20 there evidence that this child had a problem with coagulopathy  
21 based upon your review of the records and the autopsy report?

22 A. Well, the laboratory studies clearly showed a number  
23 of measures of it. There are a half dozen laboratory studies  
24 that can do this platelet count for one, something called the  
25 prothrombin time, or PT or PTT. There's another computer

Judy A. DelCogliano  
Official Senior Court Reporter

(Leestma - Defendant - Direct)

2106

1 variable called INR that is done, and then there are a bunch of  
2 other studies that can measure the level of blood proteins that  
3 provide coagulation, like fibrinogen. You can also measure the  
4 products of degradation of blood clots called fibrin split  
5 products and other things, and I don't remember how many of  
6 those were done, but the term coagulopathy was scattered  
7 throughout the medical record, and the child was treated for  
8 that.

9 Q. Turning your attention the autopsy report, is there  
10 any evidence of coagulopathy in the autopsy report?

11 A. Sure. I could see evidence of coagulopathy in some  
12 slides of the brain, where some small blood vessels contained  
13 clots inside the blood vessels and bleeding surrounding those  
14 vessels. The -- there was hemorrhage in the testicles of this  
15 baby that was described by the autopsy pathologist. There  
16 would be no reason for it to be there, other than that. So, I  
17 think there's plenty of evidence for not only the clinical  
18 diagnosis, in-life diagnosis of coagulopathy, but the  
19 confirmation of it at autopsy.

20 Q. Did the autopsy reveal whether or not there was any  
21 hemorrhage in the heart or myocardium?

22 A. Yes, there was.

23 Q. Okay. And would that also be consistent with  
24 coagulopathy?

25 A. Coagulopathy and/or sepsis. There was actually death

Judy A. DelCogliano  
Official Senior Court Reporter

A000001977

1 of heart cells and some scarring there related to that and  
2 reaction to that. So, it could be coagulopathy now and,  
3 perhaps, some time in the past, as well as some products of the  
4 bacteria in the blood.

5 Q. And how does keeping someone alive, such as this baby  
6 on a ventilator -- does coagulopathy continue to occur while  
7 the child is on a ventilator?

8 A. Sure. A life support would include ventilator and  
9 other drugs to keep the blood pressure up, all of which the  
10 child received, and this can have some effects, too. It  
11 basically keeps, quote, the body alive. The brain may be  
12 already considered dead by that point, but that will allow, if  
13 a pneumonia is present, for it to continue; other life  
14 processes to continue until those supports are stopped.

15 Q. So, until the ventilator is turned off, if a child  
16 has a coagulopathy problem, that could continue to occur; you  
17 could have fresh bleeding because of coagulopathy until the  
18 ventilator is turned off?

19 A. Probably not. When the heart action stops, the  
20 machines are pulled off and unplugged; life ceases and those  
21 processes are stopped.

22 Q. Do you have an opinion, to a reasonable degree of  
23 medical certainty, as to the cause of recent bleeding in the  
24 testes, myocardium, brain and retina?

25 A. Yes.

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Judy A. DelCogliano  
Official Senior Court Reporter



(Leestma - Defendant - Direct)

2108

1 Q. What is your opinion, Doctor?

2 A. Well, the testes and myocardia ones probably are  
3 associated with coagulopathy. The hemorrhages in the retina  
4 have a better explanation. I think they could have been added  
5 to by the coagulopathy, but the better explanation is increased  
6 intracranial pressure.

7 Q. Now, these conditions we talked about previously, the  
8 low blood pressure, the low body temperature, the low blood  
9 sugar and pancytopenia and the low white blood cell count and  
10 platelets, are those all conditions consistent with  
11 overwhelming sepsis, septic shock?

12 A. Yes.

13 Q. Doctor, can leukopenia, the low white blood cell  
14 count, pancytopenia and hypoglycemia, the low blood sugar -- do  
15 those have anything to do with head trauma?

16 A. I don't know how I could connect the two. My answer  
17 would be no.

18 Q. Doctor, based on your review of the records,  
19 materials, education and experience, having done over 20,000  
20 brain autopsies, and your work at the Cook County Medical  
21 Examiner's Office, among your work at other hospitals, do you  
22 have an opinion to a reasonable degree of medical certainty as  
23 to the cause of death of the [REDACTED] baby?

24 A. Yes.

25 Q. And what is your opinion?

Judy A. DelCogliano  
Official Senior Court Reporter

A000001979

1           A. I would say the effects of bacterial infection due to  
2           strep pneumoniae, the streptococcal bacteria, in the form of  
3           sepsis, bacterial infection of the surfaces of the brain,  
4           abscesses and cellulitis within the orbital tissues around the  
5           eye, and the complications of coagulopathy on top of that.

6           Q. And would that sepsis be pneumococcal sepsis based on  
7           the bacteria that was found in the child's body?

8           A. They were found -- the organisms were recovered from  
9           the blood. I examined tissue slides of all of the areas. I  
10          think I had five or six slides of brain, the subdural hematoma  
11          membranes and tissues of the eye. I found strep in all of  
12          those by use of the gram stain.

13          Q. Doctor, do you have an opinion, with a reasonable  
14          degree of medical certainty, as to the nature of the subdural  
15          hematoma described in the autopsy report?

16          A. I do.

17          Q. And what is your opinion, Doctor?

18          A. These are -- perhaps one could use the term chronic  
19          subdural hematoma. There are other terms, chronic fluid  
20          collections, subdural hygroma. There are a bunch of terms that  
21          describe the situation of these fluid collections over this  
22          child's brain that had been chronic; and by chronic, I mean  
23          present for weeks and months, possibly going back to birth.

24          Q. Are you able to age the chronic subdural based on  
25          microscopic sections, Doctor?

Judy A. DelCogliano

Official Senior Court Reporter

(Leestma - Defendant - Direct)

2110

1 A. Yes, we can.

2 Q. And we have those microscopic sections here today on  
3 action slide. We also have them on a CD; correct?

4 A. I do.

5 Q. Would it be helpful to come down here and demonstrate  
6 for the jury how you can age the microscopic sections?

7 A. Sure, and the context in which we would do that.

8 Q. Yes, Doctor.

9 A. I can do that.

10 Q. Come on down, please.

11 A. I think what I will do, if it's permitted, is sort of  
12 stand beside here, and then I can use my cursor to demonstrate.

13 Q. Sure, Doctor.

14 A. Shall I proceed?

15 Q. Please, Doctor.

16 A. What we have here on the screen are two pieces of  
17 film, basically, from the CT scan done a few hours after  
18 admission of this child to the hospital on 9/21, and the one on  
19 the left is a -- basically a band saw section electronically  
20 through the top of the child's head, down maybe an inch or so.  
21 And what we have here are -- if my cursor works. This is --  
22 where my arrow is is the front, above the ears; would be here  
23 and there. The back of the head is back here (indicating).  
24 What we see is something in between the two cerebral  
25 hemispheres. That's called falx, F-A-L-X. That's part of the

Judy A. DelCogliano  
Official Senior Court Reporter

A000001981

1 dura that falls in between the two cerebral hemispheres. It  
2 has some white density on it, and that white density is either  
3 blood that is in the falx itself or a very thin layer. White  
4 would be how blood would appear. The skull has -- the skull is  
5 white. Because of the calcium that is in there, it absorbs the  
6 x-ray. You can't see the soft tissues of the head. What we  
7 see here, this is the right cerebral hemisphere. It's  
8 reversed; that's the way the radiologists read it. This is the  
9 right cerebral hemisphere. This is the left cerebral  
10 hemisphere, and you can see that it doesn't fill the skull  
11 completely. And what is over the brain is a collection of gray  
12 material here, and a little darker material on the left side.  
13 This particular side is watery fluid that may have a little bit  
14 of blood pigment in it. I would probably describe it as  
15 straw-colored fluid, maybe it has a slight brownish tint if you  
16 could have it in front of you.

17 On the right cerebral hemisphere, there's a little  
18 more gray there, which means there's probably a little more  
19 blood pigment that is mixed in with this fluid that is there.  
20 The other thing that one can see, if I can get my cursor back,  
21 is there are little strings and things that seem to traverse  
22 these spaces, and this is the component that could either be  
23 veins that are connecting this outer part of this fluid  
24 collection to the surface of the brain or represents septa of  
25 connective tissue in membranous components here.

Judy A. DelCogliano

Official Senior Court Reporter

*(Leestma - Defendant - Direct)*

2112

1           If we go to the next panel, which is a cut farther  
2           down in the brain - again, front of the brain up here, the rear  
3           of the brain back here, the right side and then the left side  
4           (indicating - we can still see the falx, and it's only that  
5           much right now, a little bit of white color there. We go to  
6           the back part, and there's much more white color, and maybe a  
7           little bit more of white material that's puddled back here in  
8           the back part of the head in this fluid collection. If you  
9           want to see a comparison of what cerebrospinal fluid looks  
10          like, which is clear water with a little sugar and salt in it,  
11          that's how it should look, pretty dark black. So, anything  
12          less than that indicates that there's something distended in  
13          this fluid.

14                 So, just simply looking at the CT scans alone, you  
15          can say these are fluid collections on both sides of the brain,  
16          which there's really a rather minimal amount of recent blood.  
17          The most evident would be back here, kind of puddling in the  
18          occipital lobe on the right-hand-side; but if characterized,  
19          these lesions, they -- acute bleeding is not a major part of  
20          it.

21                 Q. Fair to say, Doctor, there's very little acute  
22          bleeding that you noticed on the CT scan?

23                 A. There is recent bleeding. I don't know how long it  
24          had been there, at least back here (indicating). This is  
25          probably about the most acute bleeding there is. You can see

*Judy A. DelCogliano*  
*Official Senior Court Reporter*



1       how comparatively little there is at that point. So, this  
2       would be a chronic fluid collection, subdural hematoma, if you  
3       want to call it that, with some small amount of acute bleeding  
4       in it. Now, how long would it take for -- if you started out  
5       with an acute subdural hematoma, where all this black space was  
6       white, fresh blood, probably many weeks to get to this, and  
7       then it tapers off. Some of these fluid collections could be  
8       present for years, and they all have a little element of blood  
9       in them for some reason.

10       Q. Can you tell the jury, what is your experience in  
11       interpreting CT scans and how long you have been interpreting  
12       them for, Doctor?

13       A. Sure. I'm privileged to be part of a generation  
14       where lots of wondrous things happen, one of them the discovery  
15       of the CT scanner and the MR scanner. These happened while I  
16       was in hospital practice, and Children's Memorial and the  
17       Northwestern Memorial Hospital received -- I don't remember  
18       what year it was that we got our first CT scanner, but the  
19       radiologists who were charged with the responsibility of  
20       reading these new images, basically, didn't know how to do it.  
21       The appearance of the brain axis is how I cut the brain at  
22       autopsy. So, these radiologists came down to the autopsy room.  
23       We would have a case. They would bring their scans along with  
24       them, and there would be the brain. And they would say, "Well,  
25       that's what it looks like in my film. Let's see what it looks

Judy A. DelCogliano

Official Senior Court Reporter

*(Leestma - Defendant - Direct)*

2114

1       like in the brain."

2               So, it was a matter of immediate correlation between  
3       what the pathology was and what they were seeing on their  
4       images. So, in a sense, the neuroradiologist and I learned to  
5       read these things together, and that interplay between  
6       radiology and pathology continued as long as I was at those  
7       institutions. So, consequently, I grew up with this, with  
8       these techniques.

9               And later, when I was doing primarily surgical  
10       neuropathology at the Chicago Institute of Neurosurgery, I  
11       would go to the OR. There are the films on the wall. I can  
12       see the patient right there. There was hardly a day that went  
13       by that I didn't look at some form of cranial imaging, along  
14       with the surgeons or with the radiologists. So, I have been  
15       doing this as long as the technology has been around.

16              Q. Thank you, Doctor. Do you have an image on your disc  
17       which would demonstrate or show the microscopic section of the  
18       chronic subdural you described here today?

19              A. Yes. One of the things that one would want to do  
20       when you do the autopsy, when you open the skull and take the  
21       brain out, this fluid flows away. So, you don't have that  
22       image any more. What you have left behind are elements of  
23       membranous tissue back here, and you want to make sections of  
24       that to make a microscopic slide, which is exactly what we did,  
25       and here is a depiction of this.

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*Judy A. DelCogliano*  
Official Senior Court Reporter

A000001985

*(Leestma - Defendant - Direct)*

2115

1           Let's start down here. This is some recent blood  
2           that is red, and the red blood cells have different colors to  
3           them, indicating that this is blood that's been in this  
4           particular location up to, I don't know, five days, a week.

5           Q. Can you use a pointer, please, to -- starting back to  
6           your first description.

7           A. This area right in here (indicating) --

8           TRIAL JUROR: We can't see.

9           MS. EFFMAN: Judge, do we have a pointer or any  
10          kind of device?

11          THE COURT: I don't know that we have -- maybe  
12          just using a pen or something, Doctor, to actually show on  
13          the screen.

14          A. Okay. This part here is a blood clot, and it has red  
15          blood cells that are clumped, also some watery fluid. Some of  
16          those red blood cells are preserved, which means that they can  
17          be about two to three days old. Those undergoing color changes  
18          are probably in the order of three, five, six days old from the  
19          time of death, meaning that some of this blood could have been  
20          still coming in there while this child was hospitalized.

21          Beneath that, we have another layer. I don't know  
22          how you want to define these things, but if you want to look at  
23          it, we have probably one, two, three, four, five, six, maybe  
24          seven or eight layers here. Now, these layers are -- represent  
25          the body's attempt to heal this subdural process. The skull

*Judy A. DelCogliano*  
*Official Senior Court Reporter*

A000001986

*(Leestma - Defendant - Direct)*

2116

1 would be up here not shown. And what is in here? We see lots  
2 of brown things. Those are blood vessels, new blood vessels  
3 that are formed to try to carry away this debris and cells that  
4 are there. And the reasons we have layers like this is because  
5 there have been multiple episodes of bleeding. It would be  
6 like a place that had six earthquakes in a row. And the aging  
7 and dating of each one of these membranes, there's a time  
8 frame. It probably takes several weeks to get one good layer  
9 going. And then, if there was another episode of bleeding on  
10 top of that, then the process starts all over again.

11 So, this is -- represents morphology, I guess, if you  
12 want; and if you add up all of these time frames of weeks and  
13 months here, this process could easily go back to the time of  
14 birth.

15 Now, one last thing that I want to mention is this  
16 layer that's up here at the top (indicating) is filled with  
17 dead cells, or another not very elegant term is pus, P-U-S,  
18 dead white blood cells, organisms, debris and so forth. So,  
19 this child has what would be called a subdural or intradural  
20 empyema. That is the collection of pus and dead tissue under  
21 the skull just on top of the dura where this was sampled.

22 Q. And do you have an opinion, to a reasonable degree of  
23 medical certainty, as to the cause of the pus?

24 A. It probably got there by -- well, there's two  
25 methods - hematogenous - in other words, there's bugs in the

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*Judy A. DelCogliano*  
*Official Senior Court Reporter*

A000001987

1 blood that colonized this particular area because it's damaged  
2 and set up housekeeping there, or there is a direct extension,  
3 for example, from, say, a sinus near this. There's a sinus  
4 infection, and it broke through and eroded through the bone  
5 into the dural space and set up housekeeping there. I don't  
6 know which one operated.

7 Q. And does pus have any connection to trauma, Doctor?

8 A. No. The only circumstance in this kind of case would  
9 be if there had been a skull fracture that had passed through  
10 one of the sinuses at the base of the skull releasing  
11 contaminated material. We don't have any evidence of that.

12 Q. Please proceed, Doctor.

13 A. This is a microscopic slide taken in the brain.  
14 These larger blue things are nerve cells. This is a tangle of  
15 capillaries that are in the cortex or in the surface of the  
16 brain. The white matter is down here. There's lots of white  
17 holes. That's edema. There's where water has come into the  
18 brain. And then we have these vessels which are distended with  
19 red blood cells and contain blood flow and inflammation  
20 surrounding them.

21 So, I think this is an example of intravascular  
22 coagulation that happened before this baby died, and maybe  
23 before his hospitalization, indicating the circumstances that  
24 were going on in this kid.

25 Q. And is that causally connected to overwhelming sepsis

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Judy A. DelCogliano  
Official Senior Court Reporter



(Leestma - Defendant - Direct)

2118

1 and septic shock, Doctor?

2 A. I believe that's the pathway that got us to this  
3 place. I should point out, also, if I moved this field up and  
4 had taken a picture of the surface of the brain, I would have  
5 found inflammatory cells there and with the gram stained  
6 bacteria.

7 Q. Doctor, can you explain to the jury what's depicted  
8 on this particular slide?

9 A. Okay. On the left panel, what we have is a section  
10 of tissue in the fat and muscle area surrounding the eye. That  
11 is -- the eye is, of course, enclosed in bone, and that's what  
12 we call the orbit, and there's soft tissues surrounding the  
13 eye, and that's where this section has been made. There are  
14 lots of blood vessels, which are normally present. Many of  
15 them are thrombosed, that is clotting, and have inflammation in  
16 the wall. We have this area of necrosis, where tissue has  
17 died, and I had a gram stain, or had one made of this tissue.  
18 And what I'm pointing out here, these dark big globs here, are  
19 the nuclei of inflammatory cells. All the little dark dots,  
20 like grains of rice all over the place, are the streptococcal  
21 bacteria, gram-positive bacteria that are in this dead and  
22 dying tissue around the eye.

23 Q. Did you request that certain slides from the autopsy  
24 be gram stained for your review of this case?

25 A. I did.

Judy A. DelCogliano  
Official Senior Court Reporter

A000001989

1 Q. Doctor, can you tell the jury, what is gram staining?

2 A. What you basically do -- and you can do it with a  
3 smear; in other words, a cotton swab of some secretion  
4 somewhere, put it out under a glass slide, and then stain it  
5 with these reagents called the gram stain, and look at it under  
6 a microscope, and they will -- these reagents will stain  
7 certain bacteria dark like this. Typical would be  
8 streptococcus, staphylococcus and some others. And then if it  
9 didn't, they would have a pink color, like the bacteria that  
10 inhabits the gut, like E. coli. Those germs will have a pink  
11 color, so they are gram negative. And the form, or the way  
12 these two dots are together, that's typical for streptococcus  
13 and particularly strep pneumoniae.

14 Q. Why is it important to gram stain a body slide?

15 A. It tells you that there's bugs there. I mean, if you  
16 look at this, you say there has to be something there because  
17 of the cellular reaction and the way the tissue is dead.  
18 Although you have a positive culture, it's not the same as  
19 saying, "There it is. We have closed the loop on it."

20 Q. And did you gram stain any other slides, besides the  
21 slide of the orbital tissues, as we talked about here?

22 A. Again, I wanted to be sure. Are there bugs in the  
23 subarachnoid space over the brain? Yes. Are there bugs in  
24 this tissue around the eye? Yes. There should be no doubt as  
25 to what the cause of death is.

Judy A. DelCogliano

Official Senior Court Reporter

*(Leestma - Defendant - Direct)*

2120

1 Q. Basically, all the gram staining you did showed that  
2 the brain and the area behind the orbital tissues had evidence  
3 of this bacteria, streptococcus pneumoniae?

4 A. Right.

5 Q. What is the significance of that?

6 A. It just closes the loop on the reason. Why is this  
7 necrotic? Why are the inflammatory cells there? It's there  
8 because there's bugs, and it tells you, when you have this kind  
9 of perfusion and distribution of a serious infectious organism,  
10 that's -- it's an advanced and disseminated disease. That's  
11 very, very, very serious. There's the cause of death sitting  
12 right there looking at you.

13 Q. Doctor, going back to the previous slide, please, for  
14 a moment. You talked about there was evidence of clotting  
15 problems. Can you point for the jury with the pointer or the  
16 pen where --

17 A. These blood vessels are distended with blood clots,  
18 and there's reaction in the wall of the blood vessel, and that  
19 would be typical for coagulopathy and so forth.

20 Q. And that's consistent with coagulopathy related to  
21 sepsis or overwhelming sepsis?

22 A. Sure. You have sepsis here and you've got it right  
23 next door. You've got the whole story right there.

24 Q. Can you go back a moment to the two prior slides with  
25 the chronic subdural hematoma? Thank you, Doctor. Based on

*Judy A. DelCogliano*  
*Official Senior Court Reporter*

A000001991

1 the number of layers - you testified seven or eight layers - do  
2 you have an opinion, to a reasonable degree of medical  
3 certainty, as to the age of this chronic subdural?

4 A. Yes. In its totality -- I mean, we have to start  
5 from the surface down here and move down, but the oldest  
6 material probably goes back -- this child is only four months  
7 old, and it certainly could go into that time frame; not all of  
8 this. Maybe we are looking at a four-month-old, a  
9 three-month-old, a one-month-old, a two-week-old, that kind of  
10 thing (indicating).

11 Q. And Doctor, in terms of risk factors, did you review  
12 the mother's obstetrical records in this case to determine  
13 whether she had any risk factors during pregnancy and during  
14 childbirth?

15 A. Yes. There were a number. This child -- when we  
16 take a look at children that have bleeding in the dura and  
17 bleeding in the brain and then go back, there have been a  
18 number of studies that have looked at that. What factors are  
19 around that could correlate with those things? And there's a  
20 bunch of them. This child had at least a half dozen of these;  
21 being early delivery, twins, the presence of toxemia during the  
22 pregnancy in the mother. The presence of premature rupture of  
23 membranes is potential for bacterial infection.

24 Let me think. They go on, but these would be all  
25 things that could put stress upon the baby and produce bleeding

Judy A. DelCogliano  
Official Senior Court Reporter

1 in the brain in conjunction with birth.

2 Q. Would meconium stained membranes - that is, a baby  
3 having a bowel movement in utero - would that be a pregnancy or  
4 birth complication factor?

5 A. It's an indicator of fetal distress, and I suppose  
6 just any indicator of fetal distress would be another box that  
7 you would check off on that risk profile.

8 Q. Would preeclampsia be a risk factor?

9 A. Yes.

10 Q. High blood pressure, would that be a factor?

11 A. Well, that's part of the preeclampsia complication,  
12 high blood pressure in the mom.

13 Q. What about obesity on the part of the mother?

14 A. That's another one. Overweight is something that  
15 adds risk. I'm not exactly sure where in the alphabet it  
16 comes, but it's there.

17 Q. And what about breach presentation for vaginal  
18 delivery?

19 A. That's another one. If the presentation is anything  
20 other than the usual head down situation, if there's any  
21 problem with delivery, and there often is with twins, that's  
22 another risk factor..

23 Q. What about use of forceps during delivery? Would  
24 that be a birth complication factor?

25 A. True, forceps, anything else that indicates that it

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Official Senior Court Reporter



1 was difficult to get the babies out, or they just popped out.  
2 There's good news and bad news. A precipitous delivery is also  
3 connected with brain bleeding and so forth.

4 Q. What about a bacterial diagnosis of a vaginal  
5 infection of the mother at the time of delivery? Would that be  
6 a risk factor?

7 A. Absolutely.

8 Q. What about the fact that one child, Twin A, was born  
9 with pulmonary stenosis? Does that have any host in the risk  
10 factors of the birth process?

11 A. That departs a little bit. I'm not sure what role  
12 that would particularly play.

13 Q. What percentage of normal pregnancies experience  
14 intracranial bleeding during childbirth?

15 A. This has been studied. It used to be thought it was  
16 quite rare, a few percent. Now it turns out that normal,  
17 presumably normal vaginal deliveries, 25 to 40 percent or more  
18 may have some evidence of bleeding in the brain.

19 Q. And if you had any of these pregnancy or birth  
20 complications, Doctor, that we talked about, how does that  
21 impact, this 25 or 40 percent, the number you have given us  
22 that have babies that experience intracranial bleeding?

23 A. It would probably shift those babies further and  
24 further into the 25 to 40 percent rate. I don't know what the  
25 exact number correlations are, but that clearly increases the

Judy A. DelCogliano  
Official Senior Court Reporter

1 risk for bleeding.

2 Q. Can you explain to the jury how bleeding can occur  
3 during childbirth?

4 A. Sure. The head has to conform to the anatomy of the  
5 birth canal; namely, it has to elongate. It has to move and  
6 twist and turn and so forth, although the -- birth is not for  
7 sissies. It's a traumatic process. And in the course of that,  
8 the intracranial structures have to be capable of moving and  
9 being stretched and strained, as well. And part of the problem  
10 with that is, with molding of the head, that the dura,  
11 especially near the back of the brain and the tentorium, it's  
12 called, may be stretched and produce bleeding in those  
13 locations.

14 Q. So, in terms of areas that you can have bleeding  
15 during childbirth, what would those areas be?

16 A. Well, it can occur anywhere in the dura, but  
17 classically, where all of the components of the dura come  
18 together, more or less, near the base of the skull and the  
19 cerebellum. The dura there is very vascular, and it  
20 experiences, from a mechanical point of view, more stresses  
21 placed upon it during birth than other areas, and it's  
22 reasonable, therefore, that blood does occur there, which it  
23 does.

24 Q. So, you can have bleeding anywhere in the dura as a  
25 result of childbirth?

Judy A. DeCagliano  
Official Senior Court Reporter

1 A. You can, sure.

2 Q. And if you have bleeding in the dura, can that flow  
3 to the posterior fossa?

4 A. Well, once you have bleeding that goes into the  
5 subdural, quote, space, it's a potential space, but it can be  
6 actualized very easily. It can respond to gravity and can  
7 redistribute itself in different parts inside the head.

8 Q. And during your review of the autopsy report in this  
9 case, was there evidence that there was blood in the posterior  
10 fossa of this child?

11 A. Well, we can see it on the CT scan. There clearly  
12 was this process, an old one, with some recent bleeding back  
13 there, yes.

14 Q. Doctor, before I stop you there, do you have  
15 additional slides that you would like to demonstrate for the  
16 jury, Doctor?

17 A. Yes, this one.

18 Q. Can you describe for the jury what is pictured on  
19 this slide?

20 A. This is lung, section from the lung which shows  
21 virtually no air in it. It's all completely collapsed. And if  
22 you look - you can't really see it with this section here -  
23 there are acute inflammatory cells scattered through this and  
24 evidence of pneumonia, but this is primarily collapse of lung  
25 tissue, most likely because air didn't reach it through the

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Official Senior Court Reporter

*(Leestma - Defendant - Direct)*

2126

1 ventilator and the lungs didn't expand, at least where this  
2 section was taken.

3 Q. Can you describe for the jury what is depicted on  
4 this photograph?

5 A. This is the section of heart, some heart muscle more  
6 or less normally scattered around the side of it. In the  
7 center is a scar, where muscle fibers have been killed, and I'm  
8 not sure what did that. It's not recent. It's been repaired  
9 with scar tissue. It's like a little tiny heart attack, and  
10 that is present in this child's heart.

11 Q. Based on what's depicted there, Doctor, do you have  
12 any idea how long this scarring had been there?

13 A. Probably a month or months. So, something has been  
14 going on here. I don't know what caused that. It could be  
15 coagulopathy. It could be something else. I have no idea.

16 Q. Would that have any connection to pulmonary stenosis?

17 A. Whatever pulmonary stenosis was caused by. It could  
18 have been an intrauterine infection or something going on that  
19 caused that. It might have been responsible here. This is  
20 scar tissue that's left. I don't know what occurred before.

21 Q. Okay. Thank you, Doctor. There was one of the heart  
22 at the end?

23 A. Yes. It just shows that there's some areas of heart  
24 muscle damage. Muscle fibers that are dark and square indicate  
25 that this heart has been having to work harder. I don't know

*Judy A. DelCogliano*  
*Official Senior Court Reporter*

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1       how many of these scarred areas were there. If there was some  
2       element of pulmonary stenosis, the heart has to work harder to  
3       pump blood, and that is reflected in a nonspecific way in  
4       another section of the heart. So, this child came into this  
5       situation with a damaged heart for a variety of reasons, and  
6       that's the load this child has to deal with.

7             Q. You can take the stand again, Doctor, please.

8       Doctor, you just touched upon earlier that you have experience  
9       in reading CAT scans and ultrasounds. How many years have you  
10      been interpreting these things?

11            A. Oh, a long, long time.

12            Q. Not to date your age, Doctor.

13            A. I'm 70 years old. But anyway, for 40 years or so.

14            Q. And as part of this case, did you have a chance to  
15      review an ultrasound from St. Mary's Hospital from May 14,  
16      2008, approximately ten days after these children were born? I  
17      draw your attention to that, Doctor. Can you rule out the  
18      existence of a subdural hematoma based simply on that  
19      ultrasound?

20            A. No, I can't.

21            Q. And can you explain that position to the jury?

22            A. Ultrasound, it's a wonderful technology that seems to  
23      be getting better and better and better all the time. It's  
24      noninvasive. It doesn't produce radiation or damage anything,  
25      as far as we know, and it's a good way if you have worries

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Official Senior Court Reporter



*(Leestma - Defendant - Direct)*

2128

1 about bleeding or some process inside the head, especially with  
2 a baby, because the skull isn't very thick, you can do an  
3 ultrasound. But like any other sort of screening test, it's  
4 not as sensitive as other methods, and you can get false  
5 negatives, and I would say the incidence of false negative  
6 exams - that is, when there's really nothing there but you pick  
7 it up - is probably higher with an ultrasound than false  
8 positives. So, if you have a lesion that you can see with an  
9 ultrasound, it's probably there, and then you may want to do  
10 some other studies to define further what it is. So, a  
11 negative study, you cannot necessarily go home with a  
12 comfortable feeling that there's nothing there. Probably more  
13 likely than not, there's nothing there, but you can't be sure.

14 Q. And might a small amount of a bleed not appear on an  
15 ultrasound?

16 A. Yes. That happens. I have encountered that  
17 situation where, by extrapolating back, where there should have  
18 been something there, and then reviewing the studies --  
19 sometimes there's technical reasons; the study wasn't very good  
20 or the technician didn't have the magic in the fingers to make  
21 things come out right. And by all rights, the study is  
22 negative, but there had to be something there, but it was below  
23 the level of detection of the instrument.

24 Q. Might there be any lag time in the appearance of a  
25 subdural hematoma such that it may not appear on an ultrasound

*Judy A. DelCogliano*  
*Official Senior Court Reporter*

1 performed ten days after a premature birth of 33 weeks?

2 A. Yes. That doesn't mean the birth is the only thing  
3 that's going on. This child is trying to adapt to be a full  
4 newborn. Other things can occur. And who knows? A process  
5 may have begun after the ultrasound was taken. It's just --  
6 you can certainly have processes that have a beginning but are  
7 small and minimal, I guess, that do evolve into something like  
8 what we see here in this child, and you see that all the time.

9 Q. And what's the most diagnostic way to -- I guess --  
10 strike that. Is a CAT scan more -- a better way to take a look  
11 at the -- that particular area of the body?

12 A. Sure. A CT scan is a good technology. MR is better.  
13 The trick with these things is you get radiation from a CT  
14 scan, a lot more than you get from a chest film, and a  
15 developing brain is something you don't necessarily want to  
16 irradiate if you don't have to. So, consequently, there's a  
17 cost benefit. There are risk benefit equations you have to  
18 work on.

19 An MR, on the other hand, is much more expensive.  
20 You probably have to sedate the child in order to do that, and  
21 then you can really get information. But, you know, how badly  
22 do you need that information? Do you have reason to go there?  
23 Maybe not.

24 Q. Which is the least expensive means of doing the  
25 imaging?

Judy A. DeCeglieano  
Official Senior Court Reporter

(Leestma - Defendant - Direct)

2130

1           A. Well, you make a pass at an ultrasound. It's  
2 relatively cheap. It's noninvasive. Who knows? It may show  
3 you something or it may not.

4           Q. Doctor, why might there be blood present subdurally  
5 on a child that's not picked up on an ultrasound ten days after  
6 birth?

7           A. Well, it's either thin, below the level of detection  
8 of the instrument, or the way the study was done, it didn't  
9 point the ultrasound to where the bleeding was, and we know  
10 that you don't get these membranes and reactions overnight. It  
11 takes time. So, something had to be in this kid's brain and  
12 dura at or about the time of birth, or shortly there  
13 afterwards, that then built on itself and rebled and bled and  
14 rebled again, and this rebleeding can be totally spontaneous,  
15 having nothing to do with anything else that's going on, and  
16 there you see the results of it.

17          Q. Doctor, taking you a step back to the blood in the  
18 posterior fossa we talked about earlier. We were told by other  
19 witnesses in this case that the ultrasound would not pick up  
20 blood in the posterior fossa, and the autopsy report that's now  
21 in evidence has evidence of blood in the posterior fossa. Can  
22 the subdural communicate to other areas of the dura?

23          A. Sure. I mean, it's not a space, but once you have  
24 blood in the so-called subdural compartment someplace, it can  
25 dissect and redistribute itself to other places.

Judy A. DeCeglieano  
Official Senior Court Reporter

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1 Q. Would it be helpful to draw that for the jury,  
2 Doctor?

3 A. Oh, I don't know that I need to. I think that is  
4 excessively complicated.

5 Q. What happens to -- can you describe the healing  
6 process of a chronic subdural?

7 A. Okay. Well, the first thing is that you end up with  
8 blood in the subdural compartment, which shouldn't be there.  
9 The blood releases chemicals and products of degradation that  
10 call forth inflammatory cells that come out of the blood from  
11 other places there to gobble this stuff up and make it go away.  
12 Cells locally have chemical signals from the dying red blood  
13 cells to the scar. So, the whole idea is to wall off this bit  
14 of blood and make it go away. Well, the process of doing that  
15 is inefficient, it appears, and little capillaries grow into  
16 this evolving membrane, which is a few cell layers thick and  
17 then gradually increases. Those little capillaries will  
18 rupture, and there you go. You start the process over again.

19 So, there's incremental bleeding, so that you can  
20 never, in a way, ever catch up, and we see a litany of that  
21 right here in this picture. Frankly, I have never seen one  
22 with as many layers in it as that. Actually, if you want to  
23 take the cover of my book, you can see, in a sense, an example  
24 of what a really chronic subdural fluid collection with  
25 membranes looks like. There's an archeology there. And it's

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(Leasima - Defendant - Direct)

2132

1 the natural process of healing that goes awry that bleeds to  
2 some of these things.

3 Q. And Doctor, is rebleeding necessarily tied to a  
4 particular event or incident?

5 A. No.

6 Q. And what can cause a rebleeding of a chronic subdural  
7 hematoma?

8 A. Nothing you know about, or let's say that somewhere  
9 along the way the child became coagulopathic. Obviously, this  
10 is a site of injury and bleeding can occur and, therefore, you  
11 have added something to it. If the child became septic, you  
12 get the same issues. If there were an episode of head trauma,  
13 of whatever kind, these are delicate structures and they could  
14 bleed again. So, there's a whole list of processes that can  
15 lead to the rebleeding, but it's part of the natural disease  
16 process in trying to heal up a subdural hematoma that involves  
17 bleeding. That's been known for more than a hundred years in  
18 the literature.

19 Q. And can you have rebleeding without any movement of  
20 the body?

21 A. Most of the time, you have no idea what is producing  
22 the incremental rebleeding.

23 Q. Fair to say, anything and nothing can cause  
24 rebleeding?

25 A. Anything and nothing, right.

Judy A. DeCagliano  
Official Senior Court Reporter

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1 Q. And, certainly, a chronic subdural hematoma could  
2 rebleed without any trauma, Doctor; correct?

3 A. Absolutely.

4 Q. Can increased intracranial pressure from meningitis  
5 cause rebleeding in a chronic subdural?

6 A. That may be complicated. I'm not quite sure how I  
7 would draw the mechanism for doing that but, certainly,  
8 infection in the region of membranes like that could facilitate  
9 rebleeding.

10 Q. And, certainly, the infection you saw in the brain  
11 and eye of this child based on microscopic sections you gram  
12 stained, could those be things that could be connected to the  
13 rebleeding?

14 A. Yes.

15 Q. Can septic shock cause rebleeding?

16 A. Sure.

17 Q. Do you know if pulmonary stenosis can cause  
18 rebleeding?

19 A. I don't quite know how that would work. I would want  
20 to be conservative on that and say I don't know.

21 Q. Doctor, have you seen studies which connect CPR to  
22 rebleeding?

23 A. This has been controversial. There could be a  
24 reasonable mechanism for doing so, and it probably has  
25 occurred, but in terms of case reports that would tie

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A000002004

(Leestma - Defendant - Direct)

2134

1 rebleeding in a subdural directly to CPR, I am unaware of one,  
2 but there could be.

3 Q. Doctor, based upon your 40 some years experience in  
4 medicine, being certified as a neuropathologist and anatomical  
5 pathologist since 1970, do you have an opinion, to a reasonable  
6 degree of medical certainty, whether -- can a subdural hematoma  
7 be caused by throwing a baby from shoulder height onto a  
8 mattress 17 inches from the ground?

9 A. My answer is probably not.

10 Q. Can you explain that to the jury, please?

11 A. Yes. In order to understand or probe into this  
12 issue, you've got to know what kind of forces are involved in a  
13 scenario like what you have described, and those scenarios have  
14 been modeled. I have seen them done. I have got copies of  
15 some of these studies done by a biomechanical engineer using  
16 dummies that are wired up to computers, in which drops and  
17 throws onto bed mattresses of one kind or another have been  
18 done. And it looks like the highest acceleration threshold  
19 might approach 40 times the force of gravity, more likely 20.

20 Q. And that would be doing so manually; correct?

21 A. Yes, 20 to 40 G's. Now, that would be like being in  
22 the elevator, or in a really fast car. As you accelerate, you  
23 experience some acceleration. Those would be fairly small  
24 ones. If you plop into a couch at your house at the end of the  
25 day exhausted, you will probably experience about ten times the

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Official Senior Court Reporter

A000002005

1 force of gravity as you get to your couch. That, in that  
2 general range, maybe twice of that or so, is what one could  
3 experience if they dropped onto a mattress from these heights.  
4 That's been measured.

5 Then we have to say, okay, what does 10 or 20 or 30  
6 G's mean? Well, when one looks at injury scenarios for adults  
7 or children or other things, what are those numbers like? It  
8 looks like you have to start getting to a hundred times or more  
9 the force of gravity before you start getting subdural  
10 hematomas and brain injury and that sort of thing. So, we are  
11 not there.

12 Q. And have there -- there have been studies on that;  
13 correct, Doctor?

14 A. There have been studies. The notion that we know  
15 nothing about the injury thresholds in babies and children is  
16 not correct. A number of studies have been -- have come out as  
17 a result of design of the air bags. The first air bags were --  
18 killed people; babies and children, in particular, which  
19 occasioned where do you put a kid in the car. Do you want to  
20 have an air bag in front of them or not? And they do have some  
21 threshold numbers. They are not like a cold experiment, where  
22 you take ten kids and do something horrible to them. You can't  
23 do that. But nature's experiments, nature's accidents do give  
24 us some insight as to what it is, and that is probably on the  
25 order of a hundred times the force of gravity to produce

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(Leestma - Defendant - Direct)

2136

1 subdurals, and actual brain injury, much more than that.

2 Q. Doctor, what's your background in pattern  
3 interpretation?

4 A. My background in what?

5 Q. In pattern interpretation or pattern recognition?

6 A. It's part of the training in pathology, and certainly  
7 around forensics, is that there are patterns of -- under the  
8 microscope, you can tell the difference between a Scotch plaid  
9 and a paisley, and then maybe even more sophisticated as you  
10 grow better. But on surface of the body, that's an important  
11 thing. For example, in injuries, if someone strikes a pattern  
12 surface, you may see a reflection of that in the bruise or the  
13 injuries that are on the skin, and these are -- you know, this  
14 is written about in every forensic pathology textbook,  
15 including my own, that some insights might be gained if you can  
16 get patterns; and if you can't, well, then you have to move on  
17 to something else.

18 Q. Doctor, let me refer you to People's 33 in evidence  
19 for this following question, Doctor.

20 A. Yes.

21 Q. Referring you to People's 33, do you see what's  
22 depicted in this photograph?

23 A. Well, this is a photograph of the back of the child's  
24 head. The scalp has been peeled downward and the scalp has  
25 been peeled forward out of you, and what we have is a rounded

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A000002007

1 three-quarters of an inch in diameter area of blood on the soft  
2 tissues overlying the skull, about where my finger is.

3 Q. And referring to that picture, Doctor, People's 33, I  
4 believe. And based on your experience of 40 years, Doctor, can  
5 you give us an opinion, to a reasonable degree of medical  
6 certainty, as to if that subgaleal hemorrhage in that  
7 photograph was caused by blunt force trauma?

8 A. Don't know. One of the things that you look for is  
9 is there a pattern of some sort and is there anything in the  
10 case history or the environment that might correlate with that.  
11 This is -- if it's an impact, it would probably be a flat  
12 surface, not a pointed one, not a linear one, not something  
13 else. Then I have to look at, well, where is the corresponding  
14 area of bruising in the scalp that's immediately over that  
15 area, and I don't see one. So, it tells us we have some  
16 bleeding on the surface of the skull without an apparent  
17 confirmation of the surface phenomena. It causes me to wonder,  
18 is that really an impact, or is it due to something else,  
19 coagulopathy being the main culprit.

20 Q. And if that were to be connected with blunt force  
21 trauma, would you expect to see some corresponding mark on the  
22 scalp internally?

23 A. I would not necessarily expect it on the surface, but  
24 on the reflected scalp that's directly over this thing.  
25 Actually, how do you get from here to there? And, so, I'm

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(Leestma - Defendant - Direct)

2138

1 doubtful that this is a blunt force impact site. It may have  
2 another explanation, coagulopathy being one of them.

3 Q. In terms of the photograph you reviewed, Doctor, is  
4 there any corresponding bleeding through the scalp directly  
5 opposite the subgaleal hemorrhage?

6 A. No.

7 Q. And do you have an opinion whether a subgaleal  
8 hemorrhage could have been caused by throwing a baby from  
9 shoulder height to a mattress 17 inches off the ground?

10 A. This isn't where an impact would likely occur. I  
11 have already discussed that I don't think it is an impact site  
12 at all. Therefore, I don't how it could correlate to any  
13 subdural. First of all, we have a chronic subdural that is  
14 months old with very, very little recent bleeding in it. So, I  
15 don't know what we are talking about here.

16 Q. Doctor, do you have an opinion as to the cause of  
17 this subgaleal hemorrhage?

18 A. No. I said it's possibly coagulation.

19 Q. How serious is the subgaleal hemorrhage in connection  
20 with the child's health? Is it a serious thing?

21 A. Is what?

22 Q. How serious is the subgaleal hemorrhage in connection  
23 with the child's health?

24 A. Trivial. I have nothing to attach it to. It doesn't  
25 seem to be connected with anything. I don't know what to make

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Official Senior Court Reporter

A000002009

1 of it.

2 Q. And in terms of the subarachnoid hemorrhage mentioned  
3 in the autopsy report, how serious is that, Doctor?

4 A. I think that is strictly incidental. This child was  
5 on a respirator, had virtually no circulation going to the  
6 brain because of the vast intracranial pressure. And in the  
7 course of this brain sitting there without any blood pressure  
8 in it for two days, basically -- all of these brains that come  
9 to autopsy have subarachnoid hemorrhage. So, it has no  
10 particular meaning.

11 Q. And do you have an opinion as to the cause of this  
12 child's coagulopathy problems, Doctor?

13 A. Sure, sepsis.

14 Q. Doctor, perhaps the next question, if I could ask you  
15 to come down. We are going to need the easel, please.

16 (Discussion off the record at the bench.)

17 THE COURT: Members of the jury, we are actually  
18 going to break for lunch at this point. We are going to  
19 stop until quarter of two. We will break until 1:45. I  
20 ask you, please do not discuss this case among yourselves  
21 or with anyone else. Do not read or listen to any  
22 accounts of this case. Do not visit any premises involved  
23 in this matter. Do not conduct any research involving  
24 this case. Do not request or accept any payment in return  
25 for supplying any information regarding this trial. Do

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Official Senior Court Reporter

A000002010

1 not make any judgment regarding this trial until you have  
2 heard all of the evidence and been instructed on the law.  
3 If anyone attempts to improperly influence you, please  
4 report it directly to me without first discussing it with  
5 anyone else. Enjoy your lunch. We will see you back here  
6 at quarter of.

7 (Jury excused.)

8 THE COURT: Doctor, I just want to caution you,  
9 as you are still a sworn witness and your testimony is  
10 continuing, please do not discuss your testimony in this  
11 case with anyone.

12 THE WITNESS: Fine.

13 THE COURT: Thank you, Doctor.

14 (A luncheon recess was taken.)

15 (Proceedings continue outside the presence of  
16 the jury as follows:)

17 THE COURT: Please be seated. Before we bring  
18 the jury out, on the break, the People submitted to the  
19 Court an Order to Show Cause, which the Court signed, and  
20 the Order pertained to precluding testimony from Dr.  
21 Ofshe, if I'm pronouncing his name correctly. The Court  
22 made the Order returnable Monday morning at nine o'clock.  
23 Mr. Frost, did you want to be heard on that?

24 MR. FROST: Yes, Your Honor. I want it to be  
25 made returnable at the close of testimony today, because

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Official Senior Court Reporter

A000002011

1 to bring Dr. Ofshe all the way back from Paris, only to  
2 have to turn around and go back, would be an extreme  
3 hardship for him, and also for the County. It would be an  
4 additional expense, and I might say, also, in reliance  
5 upon the Court's ruling, we have already spent a good,  
6 great deal of money purchasing tickets, airline tickets  
7 from Paris and round trip to Los Angeles, where he was  
8 next scheduled to go. That can't be recovered. So, I  
9 think it's critical to resolve this issue today. I don't  
10 see anything new. I think the whole idea of a Frye  
11 Hearing is to decide the issues raised in the affidavit.  
12 That's my position.

13 THE COURT: Does the defense object to the Court  
14 making it returnable right now?

15 MR. FROST: Not at all, Your Honor.

16 THE COURT: People object to that?

17 MS. BOOK: Have you had an opportunity to review  
18 everything?

19 THE COURT: I have reviewed everything that the  
20 People submitted; the Order, the Affirmation in Support  
21 and the exhibits, yes, I did. And you can certainly be  
22 heard further, if you'd like, but --

23 MR. GLASS: May we have one moment, Your Honor?

24 THE COURT: Sure.

25 (Discussion off the record between counsel.)

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A000002012

1 MR. GLASS: We have no objection if the Court  
2 rules right now.

3 THE COURT: Okay. Do you wish to be heard any  
4 further? I have reviewed the submissions. Anything you  
5 want to add?

6 MR. GLASS: No, Your Honor.

7 THE COURT: Mr. Frost, anything you want to add?

8 MR. FROST: Your Honor, I think we have  
9 satisfied all the Frye factors. I think the big issue  
10 here is is that within the ken, of course, within the ken  
11 of the average juror. Dr. Ofshe will tell you that  
12 studies have been made that the average layperson has very  
13 serious misconceptions about the importance -- on the  
14 issue of confessions; namely, that innocent people  
15 wouldn't confess to a crime, which has been demonstrated  
16 to be false through DNA exoneration cases and other  
17 exoneration cases and, also, that the average people  
18 consider evidence of gold standard and -- the average  
19 person considers a confession gold standard type of  
20 evidence, right behind DNA, and I think Dr. Ofshe  
21 indicated fingerprints, but it's apparent today -- we have  
22 the report of, I think it was, the National Academy of  
23 Science in 2007, that fingerprints have come under attack,  
24 also, as being conclusively -- conclusive proof.

25 And thirdly, most importantly, the average juror

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A000002013



1 is unaware that police interrogation over the past 50 to  
2 60 years has followed a set pattern involving three  
3 factors of psychological influence, namely, the setting in  
4 which the interrogations are held, evidence ploys that are  
5 utilized to reduce the subject's confidence by saying,  
6 "Well, we have medical proof - your wife said you did it,"  
7 that type of thing, to reduce the subject's level of  
8 confidence from a hundred percent down to near zero, and  
9 then other psychologically motivating factors, such as,  
10 "You are not going to be arrested. This isn't a crime.  
11 This is an accident. I'm going to talk to the DA, get you  
12 a good deal. I'm going to talk to the judge. I'm going  
13 to talk to" -- whatever I have to do.

14 All these things are unknown, that jurors may  
15 know something about from watching television, but they  
16 are unaware that this is standard police investigation,  
17 going back to Inbau-Reid in 1965. This is what they do.  
18 They have trained over 90,000 people in this technique or  
19 pattern of interrogation, and these people, as good  
20 apostles, go back to where they came from and spread the  
21 gospel.

22 So, these are issues that really are going to  
23 have to be decided at a *Frye* Hearing as to the  
24 qualifications of Dr. Ofshe. His qualifications are  
25 impeccable. As to whether this is an established field,

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A000002014

1 the problem -- I have done my client a disservice in  
2 referring to this as false confession as the topic of Dr.  
3 Ofshe's expertise. Correctly put, the topic is police  
4 interrogation and the use of factors of influence to bring  
5 about a confession, which may or may not be false. False  
6 confession is one of the phenomenon of the results of the  
7 use of extreme influence.

8 The cite -- the prosecution cites a couple  
9 cases, including the Rosario case, which found Dr. Ofshe  
10 to be eminently qualified. He's testified 330 times.  
11 He's testified, according to the e-mail, a copy of which I  
12 furnished to the Court, eight times in New York State.  
13 You don't read about the decisions in which he's permitted  
14 to testify, because it usually comes up on appeal.

15 If I may address it now, I think the touchstone  
16 here is LeGrand, and I note that one of the cases cited by  
17 the prosecution, the Koury case, the Appellate Division in  
18 our department likened false confessions to eyewitness  
19 identification testimony, which up until that time, the  
20 Third Department ruled was inadmissible. Well, the answer  
21 to that is People versus LeGrand, where the Court of  
22 Appeals said it was an abuse of discretion to preclude or  
23 deny an expert from testifying on eyewitness  
24 identification, where the eyewitness identification was  
25 the, if not the only evidence in the case, almost the only

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1 evidence in the case. We have a precisely similar  
2 situation here.

3 Further - I will finish with this - the cases  
4 they cite involve a different, wholly different subject.  
5 This was -- Koury, I think it was the Defendant's mother  
6 said he was highly susceptible. And I think in the Lee  
7 case, Dr. Camperlengo testified as to a mental condition  
8 at the time to make it highly susceptible. And the other  
9 case, the Lee case, said the same thing. That's a  
10 different area, and we are talking there about particular  
11 individuals.

12 Dr. Ofshe would not testify in this case that,  
13 in his opinion, this is a false confession. He will go  
14 through the police interrogation, how it's done. He will  
15 diagram it, explain it on a flip chart, discuss the  
16 setting, discuss the evidence ploys, discuss the other  
17 motivational factors; and besides that, at the Frye  
18 Hearing, he would testify as to studies that have been  
19 made regarding exoneration, people who have been  
20 exonerated by DNA and likely strong evidence of 20  
21 percent to 50 -- in excess of 50 percent in the State of  
22 Illinois, and he will testify to studies, three studies  
23 that he will tell you just what I told you about, it  
24 being -- that these are matters that are beyond the ken of  
25 the average juror, and he will also tell you there's

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1 developed literature in this field, as there is in all  
2 fields of specialized scientific knowledge. There was a  
3 review in 1992 with over a thousand citations, a  
4 bibliography with citations in 2003 and 2002 for all of  
5 that.

6 I respectfully submit that we are entitled to  
7 the *Frye* Hearing. The issues that are raised are issues  
8 that are properly done in a *Frye* Hearing, and I might  
9 finish by saying this is, essentially, a motion to  
10 reargue. We haven't really come up with any law or the  
11 Court hasn't overlooked any principle of law which is a  
12 ground for reargument, if you want to construe it as an  
13 argument for renewal with regard to the facts.

14 So, based upon that, I would request that you  
15 deny the Order to Show Cause.

16 THE COURT: Thank you. Mr. Glass, anything you  
17 want to add?

18 MR. GLASS: Very briefly, Your Honor. I don't  
19 know how this can be a motion to reargue when there wasn't  
20 a motion on the table in the first place. This is our  
21 motion to preclude.

22 Secondly, putting aside for a moment the Court's  
23 considerable discretion in dealing with matters of  
24 evidence, Mr. Frost makes very cogent arguments, but I  
25 think he's in the wrong forum. He should be at the

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1 Appellate Division or the Court of Appeals. I think, as a  
2 trial level court, again putting aside matters of  
3 discretion, this Court is obligated to follow the law in  
4 this State as it exists in its decision of law, and I  
5 think it's pretty clear that false confession evidence has  
6 not gained acceptance in the community for which -- I  
7 guess the social psychological community, and the courts  
8 of this State generally have not accepted it, and the  
9 Court is bound to follow that law, and the application  
10 ought to be granted.

11 THE COURT: Mr. Glass, isn't the question of  
12 whether it's been generally accepted by the scientific  
13 community, isn't that a question that can only be answered  
14 after a hearing has been held? I mean, perhaps in other  
15 cases, courts have found that it isn't generally accepted,  
16 but those are older cases. Shouldn't a hearing at least  
17 be held for the Court to consider the evidence and then  
18 make its determination?

19 MR. GLASS: If the Court feels comfortable with  
20 that result, I can't disagree with it, but we are relying  
21 on precedent as it exists now. I think that's fairly  
22 clear in the cases that we provided to the Court.

23 THE COURT: Okay. I understand both sides'  
24 positions. The People's motion to preclude, asking the  
25 Court to, essentially, summarily preclude the testimony of

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1 Dr. Ofshe, is denied. The Court, as I indicated before,  
2 will conduct a *Frye* Hearing this Monday at nine o'clock  
3 a.m., and that will be for, obviously, for the purpose of  
4 determining the admissibility of Dr. Ofshe's testimony.

5 Anything further from the People before we bring  
6 the jury out?

7 MS. BOOK: Did you get our other Order to Show  
8 Cause, Your Honor?

9 THE COURT: We received a second Order to Show  
10 Cause from the People. The Court signed it and returned  
11 it to the DA's for service on the defense. Service was  
12 ordered to be made personally by the end of the day today.  
13 The Court set a return date for this Monday at 9:00 a.m.

14 MS. BOOK: Thank you, Your Honor.

15 MR. FROST: Can we know the subject of that,  
16 Your Honor?

17 THE COURT: The subject matter, the Court's  
18 understanding, was allowing the People to call a CPS  
19 worker in rebuttal, as part of a rebuttal case, for the  
20 purpose of impeaching the Defendant's testimony to the  
21 extent that he claimed the statements that he made to the  
22 police were false. That's the general --

23 MR. FROST: Thank you, Your Honor.

24 THE COURT: That Order to Show Cause -- and  
25 incidentally, the People -- I don't know if it was set

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1           forth in the alternative, but it was in the last  
2           paragraph; either alternatively or outright consented to a  
3           Huntley Hearing, if it was determined appropriate.

4                     MR. GLASS: Outright consent to a Huntley.

5                     THE COURT: That Order to Show Cause will be  
6           returnable Monday at 9:00 a.m. for the defense to submit  
7           any written opposition, and then the Court will decide at  
8           that time whether a hearing is necessary or what other  
9           decision we will make. Anything further from the People?

10                    MR. GLASS: No, Your Honor.

11                    MS. EFFMAN: I'm ready, Judge.

12                    THE COURT: Doctor, I think we can have you  
13           retake the stand, and we will bring the jury out, please.

14                             (Whereupon, the jury entered the courtroom.)

15           DIRECT EXAMINATION

16           BY MS. EFFMAN: (Continuing)

17                    Q. Doctor, I ask you to step down to draw for the jury  
18           the retinal area of the retinal hemorrhage. Can you tell the  
19           jury, what is a retinal hemorrhage?

20                    A. What do you want to know about them?

21                    Q. Please tell us what they are.

22                    A. Okay. In the common parlance, retinal hemorrhages  
23           would be bleeding that occurs in the sensory element of the  
24           eye, the retina. And without any further modification or  
25           issues, that's a general term for that.

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A000002020

(Leastma - Defendant - Direct)

2150

1 Q. And would any drawing be helpful to explain to the  
2 jury?

3 A. Sure. There are many mechanisms for retinal  
4 hemorrhages, but in the context of this particular case and  
5 increased intracranial pressure, I think, perhaps, a diagram  
6 might help that.

7 Q. Can you please draw us a diagram, Doctor?

8 A. Okay. This is the eye. The retina is right here.  
9 The optic nerve, which connects the eye to the brain, is right  
10 here (indicating). And, actually, the dura of the brain is  
11 this sheath here that blends with the back of the eye, and this  
12 sheath is the optic nerve. I think I will just label this "ON"  
13 for optic nerve, and that is the retina.

14 The arterial circulation to the eye comes in through  
15 the ophthalmic artery that comes off vessels at the base of the  
16 brain and extends into the center of the optic nerve and  
17 arborizes out to provide blood supply to the retina. The  
18 venous drainage more or less parallels that. There is the vein  
19 called the central retinal vein, and at some point, it  
20 traverses the space around the optic nerve and goes for a ways  
21 and then, eventually, finds its way into the jugular systems  
22 and other systems of the venous drainage in the base of the  
23 skull.

24 Now, let's do it this way. And the optic nerve  
25 joins -- let me just do it like -- it joins the brain. The

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A000002021

1 point that I'm making here is this is the subarachnoid space,  
2 and it contains cerebrospinal fluid that surrounds the brain  
3 and also surrounds the optic nerve sheath. The point of that  
4 is that, whatever the pressure is inside the head, it's going  
5 to be transmitted down the optic nerve sheath. So, if you had  
6 a gauge here that is measuring pressure and you had a gauge  
7 here that's measuring pressure (indicating), they would be  
8 pretty much the same.

9 Now, that pressure normally is -- I will say normally  
10 is equal to something less than about 15 millimeters of  
11 mercury. That's the equivalent of venous pressure. If I were  
12 to put a needle in one of my veins and put a pressure monitor  
13 on, that's about what it would be. It would be between zero  
14 and 15. So, that's the normal situation.

15 If there is increased intracranial pressure,  
16 obviously, this gauge is going to go up. If it goes above  
17 15 millimeters of mercury, it means that this venous blood is  
18 squeezed. It can't exit. So, what you basically end up with  
19 is a situation like -- imagine my hand to be the retina, my  
20 wrist to be the optic nerve sheath. And if I were to put a  
21 blood pressure cuff or tourniquet on and cuff it up just to the  
22 point where it included venous outflow, but arterial blood flow  
23 is still going in there at a hundred millimeters of mercury or  
24 thereabouts, I've got blood coming into the eye, but no way for  
25 it to get out. And then what happens is blood builds back up

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(Leestma - Defendant - Direct)

2152

1 and bursts out of little capillaries and, actually, may burst  
2 into the optic nerve sheath and produce retinal hemorrhages.  
3 And this has been a subject of study for 50, 60 years and has  
4 been studied in animals, primates, humans; you name it.

5 Q. If you have increased intracranial pressure, that can  
6 cause a retinal hemorrhage?

7 A. By this mechanism, it prevents venous drainage from  
8 the eye and it builds back up and hemorrhages occur.

9 Q. Given the existence of a chronic subdural collection  
10 and septic shock in this child, what are the dynamics of  
11 increased intracranial pressure, and what does it mean in this  
12 child?

13 A. One thing that may be -- I'd like to make another  
14 drawing, if I could, since we have paper. We can take a look  
15 at something. Let's just for a moment diagram in very  
16 elementary fashion the nervous system. We have the ventricles  
17 of the brain here and so forth; the skull here. This would be  
18 the subarachnoid space, spinal cord. So, what we essentially  
19 have is a closed system. So, what's inside of here? What's  
20 inside of the box? We have the brain and the water that's  
21 inside the brain that makes up the tissue. We have blood that  
22 is in the blood vessels of the brain, and then we have  
23 cerebrospinal fluid, which is filling all this space around.  
24 So, that's the stuff that's in there.

25 Now, if you happen to have something else, which

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1       could be a subdural hematoma or a cyst or brain tumor, or any  
2       mass or lesion, in order for that to exist in there, something  
3       has got to leave. If the room is filled to capacity and  
4       somebody else wants to get in, somebody is going to have to  
5       leave to make room for that new person, and the something that  
6       leaves is this, the cerebrospinal fluid. It is produced  
7       constantly, every day; you and me, about a pint a day is made,  
8       and a pint a day has to be absorbed.

9               Your pressure goes up a little bit because of this  
10       new -- I will just call it X, whatever it happens to be, and  
11       then an equal volume of cerebrospinal fluid is going to have to  
12       be absorbed to make way for that. And we have a situation  
13       which -- maybe we can diagram with a little graph here; that we  
14       can say this is pressure on this axis, from zero going up, and  
15       this is volume on that axis. Now, we already know that the  
16       pressure that the brain likes to operate in is somewhere --  
17       let's just say it's here at about 15 millimeters of mercury,  
18       and this varies somewhat. It goes up and down, and there's  
19       always a balancing effect that cerebrospinal fluid will make  
20       way for.

21               Well, when you get into a situation where the volume  
22       exceeds the capacity of absorption, then what happens is  
23       pressure goes up. It turns out that the way -- how much  
24       capacity do we have to control this is based largely on the  
25       volume of cerebrospinal fluid that there is, because if you

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(Leestma - Defendant - Direct)

2154

1 haven't got any, you can't absorb any. If it's trapped in some  
2 way and you can't absorb it, then you are stuck. So, in a  
3 baby, it might be around 40 to 50 milliliters.

4 Let's assume that this is in a normal situation and  
5 the pressure rises and falls and does that and let's -- we  
6 might use it like a bank balance. Say you have \$100 in your  
7 checking account. I hope you have more than that, but let's  
8 say you have a hundred, and you write a check for \$20. No  
9 problem. The bank will pay it off. This pressure, the  
10 pressure on you financially goes up a little bit, but then it  
11 comes back down. Everything is fine. There are no symptoms,  
12 no nothing. Let's say you write a check for another 20 or \$30,  
13 still okay. You can compensate for that. The brain  
14 compensates. This mass is getting bigger. What if you start  
15 getting real close to the hundred mark over here? Then we have  
16 a situation where a very tiny amount of increased mass, whether  
17 it's due to this subdural or cyst, or maybe there's some blood  
18 or maybe there's some edema, that raises that volume.  
19 Sometimes in a baby, it may be as little as one or  
20 two milliliters, which is about the volume of the tip of your  
21 little finger. Then we go over. If you write a check for  
22 \$101, or \$100.01, then all sorts of nasty things happen from  
23 the bank. You bounce a check, you get charged. They call you  
24 up, all these sorts of things. Those could be equivalent of  
25 symptoms.

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A000002025

1           So, when a child reaches a place, or anyone reaches  
2           the place of capacity where this thing is too big or increased  
3           in size too much, then pressure goes up; and in the ranges that  
4           go up from this, the brain doesn't like it. You will develop  
5           symptoms. Respirations will cease, vomiting, unconsciousness,  
6           seizures, all sorts of things. And once you get up this curve  
7           a ways, it's very hard to go back down. Some irreversible  
8           things happen. Your reputation is damaged because you bounced  
9           a check, if you want to use that analogy.

10           This is the whole dynamic of intracranial pressure.  
11           We try to operate in this general zone of equilibrium, and when  
12           things change, a small amount of hemorrhage, swelling in the  
13           brain, inflammation around the brain, which would retard the  
14           ability to absorb cerebrospinal fluid, what happens? Increased  
15           intracranial pressure. And if that goes up significantly, then  
16           you end up with complications, like retinal hemorrhages,  
17           herniation of the brain stem, pressure on the brain stem,  
18           decompensation and sometimes death.

19           Q.   Can retinal hemorrhage be caused without any trauma?

20           A.   Yes. I mean trauma -- well, how does trauma work?  
21           By making a subdural, by making edema in the brain or causing  
22           the heart to stop or the chest not to allow the lungs to  
23           expand, and then the brain doesn't get enough blood flow, and  
24           that's how you do it. There may be several steps between a  
25           traumatic injury and why increased intracranial pressure goes

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1 up, but anything that plugs into messing up this nice  
2 equilibrium here will get you there.

3 Q. Certainly, Doctor, are you aware that there are a  
4 number of nontraumatic causes of retinal hemorrhage; correct?

5 A. There are some, if there is something wrong with the  
6 blood. For example, people with leukemia may develop  
7 hemorrhages because leukemia infiltrates in the retina; and if  
8 you have coagulopathy, bleeding, it can occur there. If you  
9 are taking Coumadin or Heparin or something for blood thinner  
10 and you have too much, you can end up with bleeding in the eye.  
11 If there's chest compressions, as in trauma or some other  
12 circumstances, backup of venous pressure into the eye may  
13 occur, and you may end up with retinal hemorrhage. But  
14 probably the major cause, however you get there, is increased  
15 intracranial pressure.

16 Q. And would that include increased intracranial  
17 pressure from meningitis?

18 A. Sure, and almost anybody who has meningitis will have  
19 some disorder of the absorption of cerebrospinal fluid, plus  
20 some edema on the brain, putting a load on this biometric  
21 system here, and we can call this the pressure/volume  
22 equilibrium.

23 Q. Do you have an opinion, Doctor, as to the cause of  
24 this baby's retinal hemorrhage?

25 A. I think increased intracranial pressure. The child

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1 died with a respirator brain, meaning the pressure was probably  
2 up here, a hundred millimeters of mercury or more. There's no  
3 subtlety to that.

4 Q. Thank you, Doctor. You previously showed us some  
5 pictures. Let's talk about infection briefly. You previously  
6 showed us some slides on the T.V. with evidence of pus on the  
7 brain. Do you recall that, Doctor?

8 A. Yes.

9 Q. In what portion of the brain did you find evidence of  
10 infection or pus?

11 A. Virtually every place where the subarachnoid space on  
12 the surface of the brain was sampled. It varied from place to  
13 place, but it was everywhere.

14 Q. And that was an infection consistent with the  
15 bacterial infection streptococcus pneumoniae?

16 A. I sampled, I think, three sections of the cerebral  
17 cortex and had them gram stained, and there were bugs in every  
18 one of those.

19 Q. And that is the bag of slides that's now in evidence,  
20 Defendant's R. Is that correct?

21 A. I believe the gram stains and everything are in  
22 there. There they are. They are in that plastic container.

23 Q. This is the evidence you looked at that showed  
24 infection on the brain?

25 A. Exactly.

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(Leestma - Defendant - Direct)

2158

1 Q. Besides the microscopic slides, did you see any --  
2 based on your review in this case, did you see any evidence of  
3 any external problems within the child's eyes that indicated to  
4 you an infection?

5 A. Yes. In the tissues of the orbit surrounding the  
6 eye, that's primarily where the worst infection and abscess  
7 formation was.

8 Q. As part of your review of the autopsy report, was  
9 there an examination done of the sinuses as part of the autopsy  
10 report?

11 A. No. By that, I mean when the brain is taken out,  
12 then you have the empty skull base, and there are a number of  
13 paranasal sinuses that are reachable through bone of that skull  
14 base, and none of those were opened or examined.

15 Q. And what is the significance -- or what would you  
16 look for, Doctor, if you are doing an examination, what would  
17 you look for in doing an examination of the sinuses?

18 A. Well, in the face of sepsis due to this particular  
19 organism, sinus infection would be way high on the list for a  
20 locus where this whole thing began, and it would be appropriate  
21 to open those - it takes just a few minutes - to see what's in  
22 there. And if you find pus in one of the sinuses, by direct  
23 extension, that's probably how it got into the brain. And it's  
24 incumbent upon you, if you are there to try to find out what  
25 went on with the child like this, you've got to collect the

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1 evidence, and it wasn't.

2 Q. The autopsy report refers to macrophages being on the  
3 brain. Is that the same thing as pus?

4 A. Yes and no. Macrophages are scavenger cells that  
5 take a few days to reach a site of injury. There are other  
6 cells that get there first called polys. They come from the  
7 blood. And, so, the pus is really the collective of dead  
8 cells, whatever they are, inflammatory cells. There might be  
9 some blood. There's necrotic or dead tissue, fluid and  
10 organisms. So, it's the gunk that builds up in the gutters, so  
11 to speak.

12 Q. In which eye did you find evidence of bacterial  
13 infection?

14 A. I think it's in both of them, actually; more on the  
15 right, tissues around the right eye that I found that.

16 Q. Doctor, can you tell us, what is bacterial  
17 meningitis? What is meningitis first?

18 A. Well, meningitis is an inflammation of the coverings  
19 of the brain.

20 Q. And what is bacterial meningitis?

21 A. If it's bacteria, that's the thing that caused it.

22 Q. Can you please explain the natural progression of  
23 bacterial meningitis?

24 A. Sure. The process -- bacteria don't just usually get  
25 there unless there's an open head wound; sometimes with gunshot

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A000002030

(Leestma - Defendant - Direct)

2160

1 wounds or fractures where the skull breaks and everything is  
2 contaminated, that's where -- or a sinus fracture. Then bugs  
3 can get into the coverings of the brain. More commonly, it is  
4 thought to occur hematogenously. In other words, you will have  
5 an upper respiratory infection, maybe a pneumonia, possibly a  
6 sinus infection, and that somehow allows bacteria to reach the  
7 blood, which then goes to every place and settles somehow in  
8 the brain. That's the common mechanism.

9 Another is direct extension, because the sinuses are  
10 very, very close to the intracranial environment, and if you  
11 have an abscess in a sinus, bugs can penetrate the dura and get  
12 into the meninges and get into the brain that way.

13 Q. Can someone have meningitis and sepsis at the same  
14 time?

15 A. Oh, yes. In point of fact, they are hand in glove.

16 Q. Did you find any evidence of bacterial meningitis in  
17 the case of [REDACTED] [REDACTED]

18 A. Ask me that again. I missed it.

19 Q. Did you find any evidence of bacterial meningitis in  
20 this case?

21 A. Bacterial meningitis? Yes, of course, all over the  
22 place.

23 Q. Can you tell the jury what that evidence is?

24 A. Well, that is the fact that even in the gross  
25 examination of the brain specimen, it looked like there was pus

Judy A. DeLCogliano  
Official Senior Court Reporter

A000002031

1 in the coverings of the brain. It looked creamy and green, and  
2 that's the first tip off. It isn't the end of it. Then you go  
3 to the microscopic, and there it is. And the further  
4 explanation or nail down of that fact is the fact there is  
5 organisms there. So, it looks like it, smells like it, tastes  
6 like it. I mean, that's pretty gross, but never mind. We have  
7 at least three levels of proof of meningitis in this case.

8 Q. And how serious is a bacterial meningitis infection  
9 in a four-month-old premature baby?

10 A. Very serious. In real young ones -- well, babies of  
11 this age that are not infected with pneumococcus, but a more  
12 common organism called H flu -- H flu is a more benign form of  
13 meningitis that not many kids die of because it gets diagnosed  
14 and is easily treatable. Pneumococcal meningitis, on the other  
15 hand, is a worse actor, and the whole survivability depends on  
16 discovery and treatment.

17 Q. Doctor, do you have an opinion, to a reasonable  
18 degree of medical certainty, if trauma caused sepsis,  
19 overwhelming sepsis in the case of this baby?

20 A. Is trauma related to the sepsis? I would say not.

21 Q. Can you explain your opinion, Doctor?

22 A. Well, first of all, how would a traumatic episode,  
23 whatever it is, to be defined, produce bacteria? It can't  
24 produce bacteria. How does it help to introduce bacteria into  
25 a system, the blood or the brain or whatever? Now, if you had

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Judy A. DelCogliano  
Official Senior Court Reporter

1 an open head injury, that's trauma, and there's contamination.  
2 That's how it could get in there. That's the easiest way. In  
3 terms of just some traumatic episode, blows and compression to  
4 the bowel and the abdomen can open up bacteria into the  
5 bloodstream from the gut. But in terms of just -- or a  
6 fracture going through a sinus. Those are about the only ways  
7 that I would imagine making sense.

8 Q. And in this case, was there any evidence of any skull  
9 or nasal fracture, Doctor?

10 A. No, no.

11 Q. Do you have an opinion, Doctor, as to whether  
12 repeated bouts of head trauma could cause this baby to  
13 aspirate, therefore causing pneumonia leading to sepsis?

14 A. Many things are possible. It just doesn't -- the  
15 evidence isn't there to enable me to start going down that kind  
16 of a scenario. It doesn't make a lot of sense to me.

17 Q. Was there any evidence in the records you reviewed  
18 that this child had any evidence of aspiration; that he had  
19 aspirated?

20 A. I couldn't find anything, and I don't think it's  
21 written in the autopsy.

22 Q. Did you find any evidence in the case of this child  
23 that supports the prosecution's theory that blunt force trauma  
24 caused this baby's problems?

25 MS. BOOK: Objection, Your Honor.

Judy A. DeICogliano  
Official Senior Court Reporter

A000002033



1 THE COURT: Basis?

2 MS. BOOK: Your Honor, he's already given his  
3 opinion many times. This has been asked and answered.

4 THE COURT: Overruled.

5 A. Blunt force trauma is a notoriously fuzzy, gray  
6 description, but we are basically talking about an impact of  
7 some sort that's not sharp and cutting and that could be  
8 inflicted or accidental. The important part of an impact  
9 injury scenario is where is the impact? What are the effects  
10 of it? And in this particular case, I'm not at all convinced  
11 that there is an impact site that is a good candidate on the  
12 head. The only one that might be is this right parietal thing  
13 that doesn't have any associated deep scalp bleeding to it.

14 The other things are, if it's an impact injury to the  
15 head, then where is the brain injury? This child had chronic  
16 fluid collections on both sides of the brain. The amount of  
17 acute bleeding in this process is minimal; mostly posterior.  
18 So, if there's a great big subdural hematoma caused by trauma,  
19 where is the acute bleeding? I don't see it. So, we have an  
20 ongoing process. Could trauma have occurred? I suppose so,  
21 but I can't find a great big headline here in the evidence to  
22 help me take that path.

23 Q. Doctor, can you rule out, to a reasonable degree of  
24 medical certainty, that trauma caused this child's death?

25 A. I could say yes, and on the other side of it, I don't

Judy A. DeCeglieano  
Official Senior Court Reporter

A000002034

(Leestma - Defendant - Direct)

2164

1 find any persuasive evidence that head trauma was important in  
2 this child's demise.

3 Q. And Doctor, what caused the death of this child?

4 A. What does what?

5 Q. What was the cause of death of this child?

6 A. Sepsis and bacterial infection that led to meningitis  
7 and abscess around the eyes and bacteremia.

8 MS. EFFMAN: No further questions.

9 CROSS-EXAMINATION

10 BY MS. BOOK:

11 Q. Hello again, Doctor.

12 A. Good afternoon.

13 Q. Let's talk about --

14 THE COURT: Do you have an issue?

15 MR. FROST: I'm sorry to interrupt, but Ms.  
16 Effman asked if she could have a couple seconds to consult  
17 with me. We are consulting.

18 THE COURT: I thought she said no more  
19 questions.

20 MS. EFFMAN: I apologize. I may have one or two  
21 more questions.

22 BY MS. EFFMAN: (Continuing)

23 Q. Doctor, do you have an opinion, to a reasonable  
24 degree of medical certainty, as to what caused the increased  
25 intracranial pressure that caused the retinal hemorrhages in

Judy A. DelCogliano  
Official Senior Court Reporter

A000002035

1 this case?

2 MS. BOOK: Objection. This has been asked and  
3 answered, Your Honor.

4 THE COURT: Hasn't it been?

5 MS. EFFMAN: I don't believe so.

6 MS. BOOK: I believe it was, several times,  
7 actually.

8 THE COURT: I will overrule the objection, but I  
9 think we are starting to ask repeat questions here. I  
10 will let him answer this question.

11 A. Okay. There are a number of processes that --  
12 against the dynamic volume/pressure arrangement that I was  
13 talking about. The child has fluid collections over the brain  
14 that may or may not be absorbable by the route of the  
15 cerebrospinal fluid. They may be walled off. So, they may be  
16 the equivalent of a big X there, which puts the capacity for  
17 compensation in a baby like this over to the right-hand-side,  
18 close to an overdraft. Then we have the bacterial infection,  
19 which is going to impede the amount of normal cerebrospinal  
20 fluid absorption by a variety of mechanisms that are more  
21 complicated than probably need to be gone into. But increased  
22 intracranial pressure is almost always present with meningitis.  
23 So, we have that load on top of the fluid collections.

24 Then once you have a situation where a child is  
25 decompensating, that adds a further load due to brain swelling

Judy A. DelCogliano  
Official Senior Court Reporter

A000002036

(Leestma - Defendant - Direct)

2166

1 and cerebral edema from the fact that the kid isn't breathing  
2 very well and maybe has lung infection that impedes gas  
3 transfer. So, you start ending up with four or five mechanisms  
4 that worsen the intracranial pressure environment and lead to,  
5 among other things, retinal hemorrhages.

6 MS. EFFMAN: Thank you, Doctor. One moment,  
7 Judge. No further questions.

8 THE COURT: Ms. Book, whenever you are ready.

9 CROSS-EXAMINATION

10 BY MS. BOOK:

11 Q. Doctor, let's talk about you testifying as an expert  
12 witness in cases.

13 A. Okay.

14 Q. How much of your income comes from case review and  
15 possibly ultimately testifying in a case?

16 A. At the current time, it may vary. I'm drawing some  
17 investment and retirement income that has nothing to do with  
18 anything except being there. Over and above that, in terms of  
19 earned income, it may vary anywhere from 50 percent to  
20 25 percent.

21 Q. And in the past, has it been as much as 80 percent?

22 A. There have been times when that was true, before I  
23 drew a retirement income, that it could be so, yes.

24 Q. How much did you make last year from consulting on  
25 cases?

Judy A. DelCogliano  
Official Senior Court Reporter

A000002037

1 A. Probably less than \$50,000.

2 Q. Okay. And how many trials have you testified in so  
3 far this year?

4 A. Let's see. I think four.

5 Q. Okay. And the four trials that you testified in, as  
6 well as the cases you have consulted on, approximately how much  
7 have you made so far this year?

8 A. Let me think. Maybe -- probably a little more than  
9 50. I haven't gone and run the tax things yet, but it may be  
10 about 60,000.

11 Q. And you said you testified in four trials so far this  
12 year?

13 A. Yes.

14 Q. How many of those were for the prosecution?

15 A. None.

16 Q. And how many times did you testify for the  
17 prosecution in 2008?

18 A. None, no times.

19 Q. How many times did you testify for the prosecution in  
20 2007?

21 A. Zero. I haven't testified in a prosecution case  
22 since the middle 90's.

23 Q. Okay. Not only do you principally testify for the  
24 defense, but you testify assisting criminal defendants or  
25 people whose children were to be taken because of allegations

Judy A. DelCogliano  
Official Senior Court Reporter

A000002038



1 of child abuse; correct?

2 A. That is the common scenario of the cases I get  
3 involved in, right.

4 Q. Okay. And how much do you charge an hour to prepare  
5 for trial?

6 A. My regular rate, which is always negotiable, is --  
7 starts at 400 an hour for out-of-court work and 600 an hour  
8 when I'm giving sworn testimony at deposition, hearing or  
9 trial, and that may be subject to negotiation because of the  
10 Public Defender's limits, and then I have to choose whether I'm  
11 going to do the case at that level or not.

12 Q. Did you enter into a negotiation for a reduced fee in  
13 this case?

14 A. Pardon me? I'm sorry.

15 Q. Did you enter into a negotiation for a reduced fee in  
16 this case?

17 A. Yes. There's a reduced fee in this case because of  
18 the limitations of funding.

19 Q. And how much are you being paid an hour in this case?

20 A. I think it will turn out to be \$250 an hour for  
21 whatever I do.

22 Q. Okay. So, as you sit here today, how much have you  
23 made so far?

24 A. I was paid a retainer against which I worked, and I  
25 think that was \$2500, and I have submitted a bill for some work

Judy A. DelCogliano  
Official Senior Court Reporter

1 in preparation for the trial, and then we will see what the  
2 time works out and expenses after that.

3 Q. So, how many hours before you got here today have you  
4 put into this case?

5 A. I don't remember what it worked out to be;  
6 probably -- I mean, I have billed about 4,000. So, whatever  
7 that works out to be. That's eight hours. Isn't that eight  
8 hours? I guess.

9 Q. So, as you sit here today, you have already made  
10 4,000, and that's before you have testified?

11 A. I have billed for the additional 1500. I haven't  
12 received it.

13 Q. Okay. And are you also being compensated for the  
14 time it took you to travel here?

15 A. That, I usually bill separately at the rate of \$100  
16 per hour, and that will go into my final billing and accounting  
17 for what I did in the case.

18 Q. And when you can get them, you prefer first-class  
19 tickets, don't you, in your cases?

20 A. Oh, I would love them, but I can't always get them,  
21 and I usually end up flying coach or use miles to upgrade.

22 Q. How many prosecution offices currently have you on  
23 retainer?

24 A. That I have done cases for?

25 Q. Currently, do you have a retainer with any

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Judy A. DelCogliano  
Official Senior Court Reporter

A000002040

1 prosecution office?

2 A. No, I do not.

3 Q. As you sit here?

4 A. No, I don't.

5 Q. And you have also been hired by the media before to  
6 give comments on cases; haven't you?

7 A. I have never been paid by the media, other than  
8 expenses to, several years ago, to go to New York to appear on  
9 one of the programs, but I have not been paid for my time.  
10 They reimburse my travel.

11 Q. Well, didn't you give an opinion to the media in a  
12 civil suit indicating that a cellular phone gave a woman brain  
13 cancer?

14 A. I might have. I don't recall.

15 Q. And you spoke with the defense prior to coming out  
16 here today; right?

17 A. I have spoken with the defense counsel, of course,  
18 yes.

19 Q. How many times?

20 A. Well, I don't know how many times on the telephone  
21 with Mr. Frost. Usually, Ms. Effman was in listening. I don't  
22 know; maybe four or five times on the phone. We met in person  
23 on one occasion in my office in Chicago.

24 Q. Did Ms. Effman and Mr. Frost fly out to Chicago to  
25 meet with you?

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Judy A. DeCagliano  
Official Senior Court Reporter

1 A. They did. I assume they flew. I don't know how they  
2 got there, but they met with me, and we met again yesterday and  
3 very briefly this morning.

4 Q. Okay. And they told you that their theme and theory  
5 of this case is sepsis; correct?

6 A. No. That isn't how -- in fact, that did not come  
7 from them. That came from me.

8 Q. Okay.

9 A. When I was asked to look at the case and see what's  
10 there, this became apparent; that that was an important issue,  
11 and I informed counsel of that.

12 Q. And you know that the medical examiner in this case  
13 found that [REDACTED] died from severe closed head injuries  
14 with a cerebral edema due to blunt force trauma. Isn't that  
15 correct?

16 A. Words to that effect. I'm aware that that's his  
17 opinion.

18 Q. And he ruled [REDACTED] death a homicide?

19 A. I know that.

20 Q. And in medical school, you were trained to write  
21 reports on cases that you were involved in; weren't you?

22 A. Well, yes. As a medical student, you write in the  
23 chart the standard dialogue of chief complaint, history, your  
24 examination and conclusions, of course. You do that all the  
25 time.

Judy A. DelCogliano  
Official Senior Court Reporter

(Leestma - Defendant - Cross)

2172

1 Q. And where is your report in this case, Doctor?

2 A. I did not write a report. I was not asked to do so.

3 Q. Did you ask the defense if they preferred you to not  
4 write one?

5 A. I always ask, "Would you like me to write a report?"

6 Q. Did they indicate --

7 A. They may say yes; they may say no. And they said,  
8 "We don't think we want one in this case."

9 Q. And did you know that if you wrote a report, it would  
10 have to be turned over to the prosecution in advance of the  
11 trial?

12 A. I have no knowledge of what the rules are. I am  
13 aware that that sometimes happens. I don't know what the  
14 motivation is, not my business.

15 Q. And have you spoken to the attorneys in this case  
16 about what the witnesses who have testified before you have  
17 said?

18 A. I have had a little bit of feedback about that. I  
19 have had the transcripts of some of them.

20 Q. Who have you read the transcripts of?

21 A. I have read a transcript of Dr. Jenny, Dr. - I will  
22 get the name right, I hope - Waldman, a neurosurgeon, the  
23 transcript of Dr. Sikirica. I think that's it.

24 Q. Did you read Dr. Edge's testimony?

25 A. I don't believe I was provided with that, no.

Judy A. DelCogliano  
Official Senior Court Reporter

A000002043



1 Q. Did you read Dr. Ojukwu's testimony?

2 A. I don't recall so.

3 Q. Dr. Kardos?

4 A. No.

5 Q. And when you met with the defense prior to this case,  
6 did you give them an indication of what type of questions they  
7 should ask you?

8 A. Inevitably, I suppose if we are dealing with an  
9 issue, I might make a suggestion that this might be a question  
10 or a way to get to the answer; perhaps it might be superior  
11 than the one that they put out at first. So, we do talk about  
12 that a little bit.

13 Q. Okay. And prior to coming here today, you already  
14 testified you reviewed the autopsy report; correct?

15 A. Ask me that again. I missed it.

16 Q. Prior to coming here today, you reviewed the autopsy  
17 report; correct?

18 A. Of course, I looked at the autopsy report, sure.

19 Q. And the OB/GYN records of the mother?

20 A. Yes.

21 Q. And records from the birth at Albany Medical Center?

22 A. That's right.

23 Q. Records from the subsequent transfer to St. Mary's  
24 Hospital?

25 A. The final admission. I mean, the key admission, yes.

Judy A. DeCeglieano  
Official Senior Court Reporter

A000002044

1 Q. No. I'm talking about when the babies, after five  
2 days of birth, were doing well. They got transferred to the  
3 other hospital for another 15 days or so.

4 A. I think I was provided with that, but I simply don't  
5 recall right now.

6 Q. Do you recall if you read it?

7 A. Well, I don't know if I was provided with the two  
8 hospitals. And if asked that question, how many hospitals did  
9 the kids go to, I would have said I don't remember; I don't  
10 know.

11 Q. Okay. So, you don't have a recollection as you sit  
12 here today --

13 A. I don't have a recollection, no.

14 Q. -- of reading the St. Mary's records from the twins  
15 transfer after May 9th?

16 A. I don't remember.

17 Q. Okay. And did you review the well-baby checkups?

18 A. There were a number of those. I certainly couldn't  
19 recite the dates and times of them, but that was part of my  
20 packet.

21 Q. And you testified that you have reviewed the medical  
22 records from when [REDACTED] was admitted to the hospital on  
23 September 21st?

24 A. For sure, right.

25 Q. Now, did you review a one-page statement given by the

Judy A. DelCogliano  
Official Senior Court Reporter

1 Defendant, Adrian Thomas, the child's father?

2 A. I'm trying to recall what I was provided. There were  
3 many recitations in hospital records and in various forms about  
4 what happened proximate to the child's admission.

5 MS. BOOK: May I approach, Your Honor?

6 THE COURT: Of course.

7 A. And I simply don't recall all of those.

8 Q. Doctor, I'm going to hand you what's in evidence as  
9 People's Exhibit 15. This is a statement given by the  
10 Defendant, [REDACTED] father, Adrian Thomas, on 9/22 of  
11 '08. Can you tell me if you have read this before?

12 A. I don't know if I have seen this. I don't  
13 recognize -- usually, I recognize -- and if I can read the  
14 handwriting. I don't know if that's part of my package or not.

15 Q. Okay. Fair enough. I'm going to show you People's  
16 Exhibit 17 in evidence. This is a ten-page statement given by  
17 the Defendant, Adrian Thomas, between 9/21 and 9/23/08. Are  
18 you familiar with that?

19 A. This doesn't look familiar, the multi-page thing.  
20 It's conceivable it was part of my packet, but I don't  
21 remember.

22 Q. Is it fair to say you don't have any recollection of  
23 reading that?

24 A. I do not.

25 Q. So, is it fair to say that you don't have any

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Judy A. DelCogliano  
Official Senior Court Reporter

(Leestma - Defendant - Cross)

2176

1 recollection of, in the Defendant's own words, him saying that  
2 he hit his baby's head against the babies' crib?

3 A. I am aware that that's immortalized in medical  
4 records from somebody else's statement, but in his own words, I  
5 can't say that I read that.

6 Q. Okay. And are you familiar with, out of this  
7 statement, the Defendant saying that he picked his child up  
8 over his head and threw him with considerable force onto a  
9 mattress 17 inches off the ground three times in four days?

10 A. In various ways in the medical chart, those facts or  
11 something very similar to that were reported, and I saw that.

12 Q. But you never read it in the Defendant's own words?

13 A. I don't recall doing so, no.

14 Q. Okay. And are you familiar with -- the Defendant  
15 says, on the morning [REDACTED] got sick, that he threw him back  
16 into the crib at least 15 inches. Were you aware of that?

17 A. I don't remember the number, but that was, again,  
18 recited in the medical record.

19 Q. And Doctor, I'm going to hand you People's 18, 19, 20  
20 and 21 that are in evidence. Are you familiar with nine hours  
21 worth of video?

22 A. No.

23 Q. Of the police interviewing the Defendant?

24 A. No.

25 Q. Whereby he demonstrates the amount of force he used

Judy A. DeCeglieano  
Official Senior Court Reporter

A000002047

1 when throwing this baby?

2 A. I have not seen that material. I am unfamiliar with  
3 it.

4 Q. So, is it fair to say you are not familiar with the  
5 Defendant's interpretation of the amount of force he used on  
6 throwing his baby on that mattress?

7 A. I am not aware of his particular words in that  
8 regard, no.

9 Q. Thank you. Okay. And going back to the autopsy  
10 report for a moment, are you familiar with the fact that Dr.  
11 Sikirica is board certified in forensic pathology?

12 A. Yes, I am.

13 Q. And that he took that extra year of schooling and  
14 training?

15 A. Yes. Usually, a year fellowship is required. He  
16 must have done that.

17 Q. And that Dr. Sikirica inspected [REDACTED] [REDACTED] in  
18 person head to toe. Are you familiar with that?

19 A. I hope so. He did the autopsy, yes.

20 Q. And that he prepared the slides?

21 A. He prepared the autopsy report and everything that  
22 came with it.

23 Q. Okay. So, when you were showing the slides on the  
24 video earlier, you said that we did that in this case; we took  
25 these cuttings from slides. Did you mean Dr. Sikirica did

Judy A. DeLCogliano  
Official Senior Court Reporter



(Leestma - Defendant - Cross)

2178

1 that?

2 A. I assume he did so. Sometimes that's the job of the  
3 helper in the morgue, but he's responsible for it, and I would  
4 say -- there it is.

5 Q. So, when you say "we," you didn't mean --

6 A. Well, I didn't select them. They were provided to me  
7 by way of the Medical Examiner's Office through counsel and a  
8 FedEx or something to me.

9 Q. Okay. And you are aware that Dr. Sikirica signed the  
10 death certificate?

11 A. I'm sure he did.

12 Q. And are you aware that he performed this autopsy on  
13 September 25th but didn't prepare his final report until the  
14 end of April?

15 A. There were some months that elapsed. I'm aware of  
16 that.

17 Q. And did you know that, during that time, he was  
18 waiting for cultures to come back from Samaritan Hospital?

19 A. I don't know. I recall that there was some question  
20 about, maybe in the transcript, of why the delay, and I think  
21 he said there were some delays in laboratory reports. I have  
22 no personal knowledge of that.

23 Q. Okay. And did you know that he was taking the time  
24 to review all the medical records of the child?

25 A. I don't know that. I don't know what he was doing.

Judy A. DelCogliano  
Official Senior Court Reporter

A000002049

1 Q. Did you know that Dr. Sikirica took the time to read  
2 the ten-page statement and the one-page statement of the  
3 Defendant?

4 A. I don't know what he examined or what he took the  
5 time to examine.

6 Q. Okay. Did you know that Dr. Sikirica examined the  
7 statement given by the child's mother, Wilhemina Hicks?

8 A. I have no idea what other materials, outside of the  
9 objective examination, he examined.

10 Q. Well, isn't that listed in the autopsy report,  
11 Doctor, everything that he examined?

12 A. No. He didn't say, "I examined all these records  
13 from birth to death." I don't believe that those things are  
14 immortalized there, but it does say what tissues he examined,  
15 what parts of the body he examined, what he took for  
16 microscopic preparations. That's all in the report.

17 Q. And did you read the statement given by Wilhemina  
18 Hicks, the child's mother?

19 A. I don't believe so.

20 Q. And would you agree, Doctor, that if you had the  
21 opportunity to assess [REDACTED] in person, that would be the  
22 preferred way to go about conducting an autopsy?

23 A. Well, sure. Then I could select what I wanted to  
24 have sampled, photographed and all of that. That's obviously  
25 the best.

Judy A. DeCeglieano  
Official Senior Court Reporter

A000002050

(Leestma - Defendant - Cross)

2180

1 Q. Okay. So, Dr. Sikirica had a bit of an advantage,  
2 let's say?

3 A. He had the advantage to do it and the responsibility  
4 that went with it.

5 Q. Now, let's talk about your testimony in some of these  
6 prior cases for a moment. It's common that you testify  
7 regarding preexisting head injury; isn't it?

8 A. When it's present, I testify to it, yes.

9 Q. And in a large percentage of cases that you have  
10 testified in in the last ten years that involved a subdural  
11 hematoma, you found a preexisting one; have you not?

12 A. It's surprising that maybe 75 to 80 percent of the  
13 cases that I come to -- that find their way to me - I don't  
14 know how they do that - that there may be a subdural, and  
15 there's some element of chronicity in it.

16 Q. So, 75 to 80 percent of the cases you testify in, you  
17 find a preexisting subdural hematoma?

18 A. Yes, ma'am, I did.

19 Q. That none of the other medical examiners find?

20 A. Not necessarily.

21 MS. EFFMAN: Objection, repetitive.

22 A. Not necessarily.

23 THE COURT: Hold on. There's an objection. The  
24 objection is sustained.

25 Q. And you have testified in the nanny case in Boston;

Judy A. DeLCogliano  
Official Senior Court Reporter

A000002051

1 correct?

2 A. I did.

3 Q. Very high profile case?

4 A. It was a very notorious high profile case, yes.

5 Q. And Louise Woodward was on trial for the death of a  
6 child in her care; correct?

7 A. That's correct.

8 Q. [REDACTED]

9 A. That's the name of the baby.

10 Q. And in that case, you found a preexisting head  
11 injury; correct?

12 A. I did.

13 Q. And then, Doctor, isn't it true that you turned  
14 slides over, that you had received from the prosecution, over  
15 to a woman by the name of Katie Leachman, who was a reporter  
16 for 60 Minutes?

17 A. I don't know what her assignment was. I did that.  
18 She requested the materials, and with the consent of the  
19 attorneys that were involved at the time, I -- they said they  
20 had no objection to it and, therefore, I did.

21 Q. And the case was over at that point; right?

22 A. The case was over.

23 Q. So, you weren't still being retained by the  
24 attorneys; correct?

25 A. Correct.

Judy A. DelCogliano  
Official Senior Court Reporter

(Leestma - Defendant - Cross)

2182

1 Q. And you turned these slides -- essentially, you  
2 turned a part of this dead baby over to the media. Is that  
3 correct?

4 A. I don't know how to comment about that. I mean,  
5 slides are --

6 Q. Did you, Doctor? Is it a part of the baby?

7 A. The slides are actual tissues of the individual,  
8 however you wish to define it. Those materials were, with the  
9 consent of the attorneys who hired me, given to Ms. Leachman.

10 Q. And, obviously, the parents in that case were pretty  
11 outraged about that; weren't they?

12 A. I don't --

13 MS. EFFMAN: Objection, relevancy,  
14 argumentative.

15 THE COURT: Sustained.

16 Q. And did you know that you were criticized by medical  
17 ethicists about your decision to do that?

18 MS. EFFMAN: Objection, argumentative.

19 THE COURT: Overruled.

20 Q. Is that a yes, Doctor?

21 A. I don't know. This was a very high profile case that  
22 had many tempers running high, and there were a number of  
23 people that were criticizing me essentially for being a defense  
24 witness and the content of the material that the case involved,  
25 and I don't know how many of them were ethicists or otherwise.

Judy A. DelCogliano  
Official Senior Court Reporter

A000002053



1 Q. Would it surprise you if I told you that medical  
2 ethicists criticized your decision to turn over slides to the  
3 media?

4 A. I don't know which medical ethicist this is, whether  
5 that's an appropriate qualification or not. I don't know.

6 Q. And for that case, Doctor, after you turned the  
7 slides over, would it be fair to say that you got more media  
8 coverage; that you got interviewed on television?

9 MS. EFFMAN: Objection, relevance.

10 THE COURT: Overruled.

11 A. There was a great deal of media coverage after and  
12 during the trial. Of course, during the trial, there was no  
13 way that I could comment. Afterwards, there were a number of  
14 interviews and media of all sorts regarding that, and I gave  
15 interviews and provided information.

16 Q. And these interviews also continued to take place  
17 after you turned over these slides to the media; correct?

18 A. Certainly, yes.

19 Q. And you were compensated between 60 and \$70,000 for  
20 that trial; weren't you?

21 A. Lord, I don't know.

22 Q. Would it surprise you if I told you you testified to  
23 that before?

24 A. I simply don't remember. It could be. I doubt that  
25 it was 70, but there were two legal exercises, the criminal

Judy A. DelCogliano  
Official Senior Court Reporter

(Leestma - Defendant - Cross)

2184

1 trial, and then there was a civil exercise that I never  
2 testified to but did do an extensive deposition. So, I guess  
3 if you lumped all of the time and everything, it could reach  
4 that.

5 Q. And that was ten years ago; right?

6 A. I guess it was now.

7 Q. And you testified in a case where a John Pozefsky  
8 (phonetic) was on trial for the aggravated murder of his infant  
9 daughter, an Ellie Pozefsky. Do you recall that?

10 A. You got to give me a little more. What city, what  
11 state, where?

12 Q. Sure. You testified that Pozefsky, 30, who was on  
13 trial in Cuyahoga County Common Police Court for an aggravated  
14 murder of the March 29th death of his infant daughter -- and  
15 this was written in 1999. Do you recall that?

16 A. This would have been -- in what county or  
17 jurisdiction?

18 Q. In Cuyahoga County?

19 A. Cuyahoga County.

20 Q. Ohio?

21 A. Ohio, yes. Okay. I barely remember -- I remember  
22 the name, and I remember being there, but not much else.

23 Q. Well, do you recall that John Pozefsky, who was on  
24 trial for the aggravated murder of his infant daughter, you  
25 testified that she died from a birth complication, not from

Judy A. DelCogliano

Official Senior Court Reporter

A000002055

1 blunt force trauma?

2 A. I don't remember.

3 Q. You don't remember?

4 A. I do not remember the facts of the case.

5 Q. If I showed you a newspaper article, would that help  
6 you?

7 A. This is a case that, like everything else, took hours  
8 and hours of preparation. I was on the stand probably several  
9 hours. This is more than ten years ago or about ten years ago.  
10 A one-pager would not help me recover the substance of the  
11 case.

12 Q. All right. Well, do you disagree with me that you  
13 may have found a birth complication and not blunt force trauma?

14 A. If you say so, that may be so. I simply don't  
15 remember. When the cases are over, there are plenty of others  
16 that come along. There's lots of other work going on, and I  
17 tend not to retain, unless it's an accident somehow, the  
18 individual details, and I certainly wouldn't want to be held to  
19 details on that one.

20 Q. Okay. Well, Doctor, as you sit here today, in the  
21 last five years, in cases you testified in that have involved  
22 the issue of a subdural hematoma, can you tell me the name of a  
23 case where you did not find an existing subdural hematoma?

24 A. No. I can't remember. I mean, I have said maybe 75,  
25 80 percent do have some underlying aging on the lesion, but I

Judy A. DeIcogliano  
Official Senior Court Reporter

1 simply can't, with all those cases, recall the names and dates  
2 and places like that. My memory is not that good.

3 Q. Thank you. You answered my question. Is it fair to  
4 say your specialty is in the area of diseases of the central  
5 nervous system?

6 A. Correct.

7 Q. And a lot of your work is looking at areas such as  
8 tumors, viruses, epilepsy and the nervous system?

9 A. That's fair.

10 Q. Is that fair to say?

11 A. Yes.

12 Q. And you have not written many articles dealing with  
13 the treatment of children who are the victims of abuse; have  
14 you?

15 A. The treatment? Certainly not.

16 Q. And, in fact, of the 105 articles that are listed on  
17 your CV, only four of them have the word "children" in the  
18 title. Would that be fair to say?

19 A. Lord, I don't know. I have certainly written --

20 Q. Would you like an opportunity to review?

21 A. Let me look at it. The titles of the articles? I  
22 don't know.

23 Q. Actually, let me get the one that is in evidence.

24 MS. BOOK: Judge, may I approach?

25 THE COURT: Of course.

Judy A. DelCogliano  
Official Senior Court Reporter

1 Q. Doctor, if you could look over your 105 articles for  
2 a moment and tell me how many of them have the word "children"  
3 or "infant" or "baby" or "pediatric" in the title?

4 A. There's an article, or Citation 99, 2006, talking  
5 about the shaken baby syndrome, confessions and admissions. It  
6 says "baby" in there, but it doesn't say child.

7 Q. So, that's two.

8 A. Then there's 98, which is "Case analysis of brain  
9 injured, admittedly shaken babies" -- Or "infant," and that  
10 doesn't have the "child" in it, but it's a baby.

11 Q. I'm asking about the ones in the title, Doctor.

12 A. "Occult/asymptomatic cranial injury in infancy."  
13 That's one. Well, there's one that goes way back on renal cell  
14 cancer in children. That would be 1970.

15 Q. So, did you find four, Doctor?

16 A. I think that's probably it.

17 Q. Okay. So, four of 105 articles that you have written  
18 have the word "children" in the title?

19 A. Children, infant, babies in the title. That does not  
20 talk about the content.

21 Q. And you have never written about recognizing and  
22 treating children with head injuries; have you?

23 A. No. I'm not a treating physician. That isn't what I  
24 write about.

25 Q. Right. Because you never have treated a child during

Judy A. DeCeglieano  
Official Senior Court Reporter



1 your career; correct?

2 A. With head injuries, I have no memory, beyond medical  
3 school, of having done so.

4 Q. Okay. And when you come to work day in and day out  
5 now since you have retired, you don't look at CT scans of a  
6 child, unless they are dealing with a case you have been  
7 retained in; correct?

8 A. That's usually the circumstance. I always request  
9 imaging studies, and many times they are available, and I read  
10 them.

11 Q. All right. And when was the last time you performed  
12 a life saving effort on a child?

13 A. A what?

14 Q. Life saving efforts on a child?

15 A. Never. I have never done that.

16 Q. And is it fair to say you never met [REDACTED] [REDACTED]

17 A. I never did.

18 Q. You never treated him?

19 A. I never saw him, didn't know him.

20 Q. And you didn't make cuttings in [REDACTED] brain?

21 A. I did not. He was not available.

22 Q. Doctor, would you agree with me that you previously  
23 wrote the following: "It is sometimes an issue at trial, often  
24 exploited by defense attorneys, that the apparent lack of  
25 external evidence of an injury in connection with a massive

Judy A. DelCogliano

Official Senior Court Reporter

1 intracranial trauma somehow correlates better with an  
2 accidental injury, rather than a willful one. This  
3 interpretation is fallacious and should not be conceded." Did  
4 you previously write that, Doctor?

5 A. If you would tell me where that appeared, I would  
6 agree with you.

7 Q. It appeared in your first edition of Forensic  
8 Neuropathology.

9 A. That doesn't surprise me.

10 Q. At Page 338.

11 A. Yes. It's possible I wrote that, yes.

12 Q. Okay. Now, let's talk about the retinal hemorrhage  
13 in this case. You have never been declared an expert in  
14 dealing with treatment of the eyes; correct?

15 A. No. I'm not an ophthalmologist. I never did any of  
16 that.

17 Q. Never treated a patient for an eye disorder?

18 A. As a medical student, but not in a normal  
19 circumstance.

20 Q. So, some 45 years ago, perhaps, but not subsequently?

21 A. Probably. I guess my kids had conjunctivitis. I  
22 maybe gave them some eye drops. That's it.

23 Q. Okay. So, forty-five years ago or a member of your  
24 family; correct?

25 A. That's right.

Judy A. DelCogliano  
Official Senior Court Reporter

A000002060

(Leestma - Defendant - Cross)

2190

1 Q. Are retinal hemorrhages indicative of child abuse?

2 A. No.

3 Q. Well, have you previously testified that they are  
4 highly correlative of child abuse?

5 A. There is a strong correlation in abusive head injury  
6 in children. A large percentage of these babies will have  
7 retinal hemorrhages. I have written about it. I may well have  
8 testified about that.

9 Q. So, in fact, when you have a child abuse case, you  
10 are much more likely to find retinal hemorrhaging than when you  
11 don't have a child abuse case. Is that correct?

12 A. I don't know that that's true. Certainly, in the  
13 known abuse cases, the instances of retinal hemorrhages in some  
14 series is a hundred percent. The issue comes of how do you  
15 know it's an abusive injury. Then you have other cases, again,  
16 by the same token, how do you know what it really is; but the  
17 fact is pediatric head injury is attended by a very high  
18 percentage of infants that have retinal hemorrhages.

19 Q. Doctor, do you previously recall, in the People v.  
20 Morinda case in 2004, you were asked by the prosecutor: "Okay.  
21 So, in fact, when you have a child abuse case, you are much  
22 more likely to find retinal hemorrhaging than when you don't  
23 have a child abuse case?" And you answered: "Yes, with  
24 cranial head injury in infancy, yes, that's true."

25 A. Using the literature reports, that would probably be

Judy A. DeCeglieano  
Official Senior Court Reporter

A000002061

1 so, yes.

2 Q. And in this case, it would be fair to say that we  
3 have extensive retinal hemorrhaging; right?

4 A. I think that is so, yes.

5 Q. In both eyes?

6 A. I believe it, yes.

7 Q. Let's talk about how you age subdural hematomas for a  
8 moment.

9 A. Okay.

10 Q. You age subdurals based on studies of adult brains.  
11 Would you agree with that?

12 A. The study that provides a microscopic road map to do  
13 that was done on, I think, 151 adult subdural hematomas whose  
14 age was known.

15 Q. Okay.

16 A. And no comparable study has ever been done in  
17 children.

18 Q. No comparable study has ever been done in children?

19 A. Or published. Now, that doesn't mean that those of  
20 us who are looking at material like this aren't constantly  
21 trying to find cases that there is a time frame to weigh the,  
22 you know, the veracity of the method to see if it's way off  
23 somewhere or if it's on the money, so to speak, and I haven't  
24 found that it is. I haven't found anything to throw that  
25 method out the window.

Judy A. DeCeglieano  
Official Senior Court Reporter

A000002062

*(Leestma - Defendant - Cross)*

2192

1 Q. Okay. So, you haven't found anything to indicate  
2 that a child's brain -- that you could age subdurals of a  
3 child's brain the same way you could have in an adult's brain?

4 A. I think it would be very, very close.

5 Q. All right. So, would you agree with me, Doctor, that  
6 an adult's brain and a child's brain is not really similar?

7 A. There are many, many differences, of course; whether  
8 that translates down to how fast healing processes in the dura  
9 work, I'm sure that has to be resolved yet.

10 Q. And a child's brain is much more fragile. Would you  
11 agree with that?

12 A. It depends what you mean. In some respects, a  
13 child's brain is more resilient to insults than an adult, and  
14 we need more, you know, more definition of what you are talking  
15 about.

16 Q. Well, would you agree with me that a baby's skull is  
17 not formed after birth?

18 A. That's true.

19 Q. Sutures are opened up?

20 A. It's softer. It's malleable. The sutures can open;  
21 adult's cannot.

22 Q. So, that's a difference; right?

23 A. Yes, it is. There are many differences.

24 Q. And there's no hard scientific data to suggest that a  
25 baby's brain clots at the same rate as an adult brain, other

*Judy A. DelCogliano*  
*Official Senior Court Reporter*

A000002063



1 than your own anecdotal experience. Is that correct?

2 A. Ask me that question again.

3 Q. Sure. There's no hard scientific data to suggest  
4 that a baby's brain clots at the same rate as an adult brain,  
5 other than your own anecdotal experience; correct?

6 A. That it clots, C-L-O-T-S?

7 Q. Yes.

8 A. Well, a brain doesn't clot. I don't know what we are  
9 talking about. I'm confused by that.

10 Q. All right. Maybe I can clear this up a little bit.  
11 Do you recall, in the People v. Morinda case, you were asked:  
12 "And there's absolutely no good, hard scientific data to  
13 suggest that a baby's brain clots in the same -- at the same  
14 rate as adult brain, other than your own sort of anecdotal  
15 experience?" And you answered: "I'm unaware of any studies  
16 that have used baby's subdurals and approached it the same way,  
17 to applying, dating and applying characteristics on it. I  
18 mean, people do it all the time, but it's not published in  
19 quite the same way. You are right."

20 A. I see where you are getting to. The question was  
21 posed in a confusing way. The things that produce subdural  
22 hematomas in adults and older people tend to be of a different  
23 character than we see in children, and the mechanisms are  
24 probably quite different. This is data that's emerging now,  
25 new studies that are going on. So, there are some important

Judy A. DelCogliano

Official Senior Court Reporter

1 differences. In terms of the healing process, the aging and  
2 dating process, there are certain limits that cells, regardless  
3 of whether they are in adults or old people or young, can only  
4 do things so quickly. And how accurate, what the variation is  
5 in the aging and dating for infantile subdurals and adults has  
6 yet to be defined, but it is probably not going to be  
7 unexpected.

8 In other words, if we say, "You see these things in  
9 the slide," and it means that the clot is three to five days  
10 old, to suddenly put it way out of that frame or way before it  
11 in children, I have not seen any cases that would cause me to  
12 say it's remarkably different.

13 Q. But Doctor, with respect to a baby's brain, you are  
14 working on an assumption. Is that not correct?

15 A. We have to extrapolate the data we have and do the  
16 best we can, and I have no reason to say, "Throw all the data  
17 out the window. I don't know what to do."

18 Q. But Doctor, you are working on an assumption;  
19 correct?

20 A. Yes.

21 Q. Now, let's talk about your new book for a moment. On  
22 Page 273 of your new book, under "subdural hematoma and  
23 subdural infusions," you have written, "neonatal subdural  
24 hematoma is said to be uncommon to rare with only nine cases  
25 reported as of 1978." Is that published there?

Judy A. DelCogliano  
Official Senior Court Reporter

1 A. That's what I wrote, yes.

2 Q. And you went on to say, "but others have indicated  
3 that subdural hematomas, often in the posterior fossa, though  
4 uncommon, are not rare"?

5 A. That's right.

6 Q. So, Doctor, is it fair to say that neonatal subdural  
7 hematoma is, at best, uncommon?

8 A. Yes, at best. It turns out that there's been recent  
9 publications that have studied that, and it appears it's a lot  
10 more common than we thought, and some of that might supplant  
11 that. I don't know what the most recent --

12 Q. This book was published in 2009; was it not?

13 A. Yes. It was published in 2009, but the writing of  
14 this goes back a couple of years. You can't always have  
15 everything.

16 Q. Okay. Well, this was put out this year, though;  
17 right?

18 A. Yes. It was available in November, but they say  
19 2009. So, that's it.

20 Q. And it goes on to say that, "in most cases, most such  
21 cases occur in connection with difficult deliveries involving  
22 the use of forceps, vacuum extraction and cesarean sections  
23 performed once the birthing process has begun"?

24 A. Those were important risk factors that were known  
25 then, and some additional ones have appeared since.

Judy A. DeCeglieano  
Official Senior Court Reporter

A000002066

(Leestma - Defendant - Cross)

2196

1 Q. Did you know that [REDACTED] [REDACTED] mother, Wilhemina  
2 Hicks, said he was born a vaginal delivery?

3 A. That's correct. That's what I understand.

4 Q. And then it goes on to say, "a typical history is a  
5 difficult delivery with the infant appearing intact at birth,  
6 but then, in the course of hours or days, deteriorating." Does  
7 it say that?

8 A. That's a common scenario, correct.

9 Q. We don't have any evidence of [REDACTED] in a matter of  
10 hours or days, deteriorating; do we?

11 A. No.

12 Q. And you go on to say that, "surgical intervention may  
13 be life saving." [REDACTED] didn't need to have any surgery here,  
14 now; did he?

15 A. No.

16 Q. And you say, "subdural bleeding may be acute and  
17 produce immediate symptoms, including seizure, coma,  
18 respiratory distress and death." We didn't have evidence of  
19 any of these here; did we?

20 A. No. He didn't present that way in the neonatal  
21 period, no, not at all.

22 Q. And then you go on to say a few sentences down,  
23 "episodes of bleeding evolve slowly and only eventually,  
24 usually within a few weeks."

25 A. That's right.

Judy A. DeCeglieano  
Official Senior Court Reporter

A000002067

1 Q. "Produce symptoms, which can include all of the  
2 above, as well as paralysis, abnormal movements and reflexes,  
3 nausea and projectile vomiting"?

4 A. That's often how they present when they do.

5 Q. Okay. So, first of all, [REDACTED] didn't present  
6 anything within a few weeks; did he?

7 A. Not until he was four months old, no.

8 Q. And he never had symptoms of paralysis; did he?

9 A. He didn't present that way. He presented unconscious  
10 and comatose and not breathing.

11 Q. Fair to say he didn't exhibit any of these symptoms;  
12 right?

13 A. Well, he didn't present with paralysis or seizures.

14 Q. And -- I mean, the way I heard it on your direct  
15 case, it sounds like this was a pretty sick baby; right?

16 A. A very sick baby.

17 Q. Who had some unusual complications?

18 A. A very sick baby on admission at the age of four  
19 months.

20 Q. Well, from what I hear, Doctor, it sounds like he was  
21 a pretty sick baby since he was born?

22 A. I don't have that. He remained in the hospital for a  
23 period of time, which is typical, and was treated for possible  
24 sepsis, which apparently he didn't have. I don't know how sick  
25 a baby he was, enough that the hospital wanted to keep him for

Judy A. DelCogliano  
Official Senior Court Reporter



(Leestma - Defendant - Cross)

2198

1 a while.

2 Q. You say he had layers upon layers upon layers of  
3 these subdural hematomas. They are not healthy; are they?

4 A. That's right, that took months to develop, long after  
5 this child was released from the hospital.

6 Q. And if I heard it correctly on direct, you said that  
7 [REDACTED] had had a heart attack about a month before the  
8 autopsy?

9 A. Histologically and microscopically in the heart, yes,  
10 I would say so.

11 Q. So, this baby had a heart attack around three months.  
12 Is that your testimony?

13 A. At least that, yes, maybe before.

14 Q. And you know on September 13, 2008, Wilhemina Hicks  
15 took her baby to the emergency room because he had a slight  
16 rash on his face; right?

17 A. I don't remember that. I don't know.

18 Q. Okay. Well, wouldn't it be fair to say, if this  
19 child experienced a heart attack, someone was going to take him  
20 somewhere?

21 A. There's a lot of damage that occurs, and heart  
22 attacks occur and nobody knows they occurred.

23 Q. Do you agree that it is a fact that the vast majority  
24 of seriously head injured infants and children, when automobile  
25 and other major accidental trauma can be ruled out, acquired

Judy A. DeCeglieano  
Official Senior Court Reporter

A000002069

1       their injuries as a result of abuse?

2           A.    I wrote that in the earlier edition of my book, and  
3       similar statements have been revised to take a broader view of  
4       those things.

5           Q.    Well, you've said that in the past; haven't you,  
6       Doctor?

7           A.    Pardon me?

8           Q.    You have said that in the past, though; haven't you,  
9       Doctor?

10          A.    I have, sure.

11          Q.    The vast majority of these children were abused.

12          A.    That is what I said. I would not write that today,  
13       and I haven't written it today.

14          Q.    Would you agree that, as a general rule, most  
15       children don't die from intracranial bleeding associated with  
16       vaginal birth?

17          A.    That's true.

18          Q.    And most children who do experience intracranial  
19       bleeding are asymptomatic; correct?

20          A.    That's true.

21          Q.    And that means they don't exhibit any signs or  
22       symptoms of this intracranial bleeding; correct?

23          A.    That's correct.

24          Q.    And most of these children, they clear up on their  
25       own without any type of medical intervention; correct?

\_\_\_\_\_  
Judy A. DeCeglieano  
Official Senior Court Reporter

*(Leestma - Defendant - Cross)*

2200

1           A.    They appear to solve their problems themselves  
2           somehow.   Some don't, but most do.

3           Q.    And if they do rebleed, how often is it clinically  
4           significant?

5           A.    Well, it's hard to -- it becomes clinically  
6           significant when you've got somebody -- a baby coming in with  
7           symptoms that then are worked up and are shown to be subdurals  
8           and bleeding and so forth.   That's clinically significant.  
9           They don't know that until they have actually been discovered.

10          Q.    All right.   Well, if 25 or 40 percent of children are  
11          born with intracranial bleeding, is it a fact that most of  
12          those are never clinically significant?

13          A.    Quite correct.

14          Q.    And normally, they wouldn't impact the child at all;  
15          right?

16          A.    Well, as far as we know.   They seem to pass through  
17          this period and -- the only way we know there's percentages  
18          like that is studies where ultrasounds and CT scans and other  
19          things have been done on a general population, to pick them up,  
20          and that's how we would know that there are that many.   We  
21          wouldn't know otherwise.

22          Q.    Here again, Doctor, is it fair to say you are sort of  
23          working on an assumption?

24          A.    Right.

25          Q.    And you say that they can bleed with minor trauma or

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Judy A. DeCeglieano  
Official Senior Court Reporter

A000002071

1 no trauma; right?

2 A. Say that again. I'm sorry.

3 Q. That intracranial bleeding or subdural hematomas,  
4 they can rebleed with minor trauma or no trauma; correct?

5 A. True.

6 Q. And when an infant is first born, they have a very  
7 wide anterior fontanelle; correct?

8 A. Most do, yes.

9 Q. And that's right up here (indicating)?

10 A. Correct.

11 Q. And it makes the top part of the brain pretty easy to  
12 view on an ultrasound; does it not?

13 A. Yes. Quite frequently, that's where they will do  
14 this. The ultrasonic instrument will be put up there, and that  
15 means, then, you are not having to look through bone to get a  
16 look at the brain.

17 Q. Okay. And you even said on direct that that's  
18 usually the method that people use when a newborn gets one  
19 done; correct?

20 A. Yes. There's lots of variation in instrument and the  
21 technology and the competence and all that. These are not  
22 uniform studies, by any means.

23 Q. Okay. And [REDACTED] had one of those done; right?

24 A. He had one of these done - for whatever reason, I'm  
25 not clear - but it was negative.

Judy A. DeCeglieano  
Official Senior Court Reporter

A000002072

(Leestma - Defendant - Cross)

2202

1 Q. No intracranial bleeding?

2 A. Pardon me?

3 Q. No intracranial bleeding; correct?

4 A. Well, that's what the report says. They found  
5 nothing wrong.

6 Q. No subdural hematoma; correct?

7 A. They didn't say that. They just said this is a  
8 normal study.

9 Q. Well, wouldn't that imply, then, that there are no  
10 subdural hematomas?

11 A. That would be implied, but not necessarily so,  
12 because we know there's an error rate. They just say it's a  
13 normal study.

14 Q. Okay. And this was done ten days after his birth;  
15 right?

16 A. That's about right, yes.

17 Q. Okay. And where were the majority of [REDACTED]  
18 subdural hematomas located at his autopsy?

19 A. Everywhere. He had them all over the hemispheres of  
20 the brain, the base of the skull, virtually everywhere.

21 Q. Fair to say up here, as well, on his anterior  
22 fontanelle?

23 A. Everywhere, everywhere.

24 Q. So, that would have been pretty easy to see on an  
25 ultrasound; wouldn't it have?

Judy A. DeCagliano  
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A000002073



1           A.    That would be -- you can see all of these on the CT.  
2           And as I said, they are everywhere.

3           Q.    Doctor, did you plot out on a growth chart the growth  
4           of [REDACTED] head from birth until his admission on  
5           September 21st?

6           A.    I didn't have those numbers. I had the numbers  
7           that -- it was 49 and something inches, which I think is kind  
8           of big, for the autopsy.

9           Q.    Well, did you review in Dr. Jenny's testimony that  
10          she did, in fact, plot out the infant's brain on a growth chart  
11          from birth until September 21st, and that until that hospital  
12          admission, his growth rate was appropriate and normal?

13          A.    That I would like to see. I don't recall seeing  
14          that. That's something I often look for, because children with  
15          problems like this often do have an increasing head  
16          circumference, and I just don't remember.

17          Q.    I don't have Dr. Jenny's testimony, but I know you  
18          did. Do you recall seeing that in there?

19          A.    I do not. I can't recall it.

20          Q.    Well, would you expect to see an increased growth  
21          rate if there was, in fact, a growing subdural hematoma inside  
22          the infant's brain?

23          A.    I would expect to see that. Some children somehow --  
24          either the brain is shrunken, and somehow head enlargement is  
25          not needed to compensate. I don't have a good explanation, but

\_\_\_\_\_  
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(Leestma - Defendant - Cross)

2204

1 when you see children with CT scans that look like that,  
2 usually their heads are in the 95th percentile of  
3 circumference.

4 Q. Oh, well, on the day that that was taken, certainly,  
5 Dr. Jenny said his head was larger on that date, on  
6 September 21st, but up until that event, it was growing at a  
7 normal rate?

8 A. I don't know that, and that is a piece of information  
9 I would like to know.

10 Q. So, that would be pretty unusual, if he had these  
11 subdural hematomas since birth, that it would be growing at a  
12 normal rate until September 21st; right?

13 A. I don't know that you could say that. I would say I  
14 would, more likely than not, expect the head, wherever the kid  
15 was born, on the 50th percentile or 30th or whatever happened,  
16 you should ride that curve or stay pretty close to it. And  
17 most of the kids that have what this kid did would traverse  
18 that; they would accelerate head circumference growth at the  
19 expense of something else.

20 Q. Okay. You would agree he would have a bigger head?

21 A. I would expect that.

22 Q. And if someone did have an existing subdural  
23 hematoma, you would agree that a greater intensity of trauma  
24 could lead to a greater chance of a rebleed. Is that correct?

25 A. Children with these fluid collections appear to be

Judy A. DelCogliano

Official Senior Court Reporter

A000002075

1 more vulnerable to head trauma than those who don't have them  
2 and, therefore, the propensity for additional bleeding and the  
3 symptoms that come from that. There have been cases talked  
4 about and reported like that.

5 Q. So, your answer is yes?

6 A. Yes.

7 Q. Okay. And is it common that people with significant  
8 head trauma develop complications?

9 A. Yes, always.

10 Q. Okay. And would you agree with me that the brain  
11 sends messages through the central nervous system?

12 A. Well, that's what it does. The brain generates  
13 nervous impulses and processes information coming in and sends  
14 impulses going out, enabling you to move and do all of that.  
15 Yes. That's what the brain does.

16 Q. So, the brain is probably very important in the  
17 function of your body; correct?

18 A. Yes. You can't -- if you don't have one, you are not  
19 alive.

20 Q. Right, exactly.

21 A. You are dead.

22 Q. Exactly. So, if you were to have trauma in your  
23 brain, obviously, that's going to decrease your body's ability  
24 to work. Is that correct?

25 A. It depends on what stresses you are talking about.

Judy A. DelCogliano  
Official Senior Court Reporter

*(Leestma - Defendant - Cross)*

2206

1 If there's brain damage, quite clearly, the organisms' ability  
2 to respond to stress would be diminished, but it can be in very  
3 specific ways and not necessarily general ways. So, we would  
4 need more information to go further with that.

5 Q. But generally, you would agree with that statement;  
6 wouldn't you?

7 A. Again, I can't be nonspecific. I deal in the world  
8 of specifics. So, I'm saying, if the brain doesn't work, you  
9 are diminished; obviously, you are, but in not always  
10 predictable ways.

11 Q. You agree diminished?

12 A. Okay.

13 Q. Okay. And is it common that someone with a head  
14 trauma might develop pneumonia?

15 A. Yes. If their level of consciousness and functioning  
16 is impeded, they can, especially if they can't cough.

17 Q. Right. Because if you were --

18 A. If they can't --

19 Q. I'm sorry, Doctor.

20 A. If they can't cough and protect their airway, they  
21 would be vulnerable to pneumonia.

22 Q. Okay. And, again, if you do lose that period of  
23 consciousness and you become more vulnerable, Doctor, isn't it  
24 possible that you could aspirate?

25 A. Of course.

*Judy A. DelCogliano*  
*Official Senior Court Reporter*

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1 Q. And if you aspirate, it's possible that you are not  
2 going to be able to clear your airways. Isn't that correct?

3 A. That's possible.

4 Q. And that you might be more susceptible to bacterial  
5 diseases or anything else?

6 A. That's true.

7 Q. Okay. And you agree with me that, if someone is on a  
8 ventilator for two days, they're certainly most likely going to  
9 develop pneumonia?

10 A. Many individuals who are on artificial ventilation  
11 will develop some element of pneumonia while on artificial  
12 respiration. They will.

13 Q. And new trauma could potentially lead to fresh  
14 bleeding around the edges of a subdural hematoma --

15 A. Yes.

16 Q. -- that wasn't damaged before?

17 A. Yes. That's true.

18 Q. So, even if you did, let's say, have an existing  
19 subdural hematoma, new trauma could cause new fresh bleeding?

20 A. That's been demonstrated.

21 Q. Okay. And in an area where it wasn't damaged before;  
22 correct?

23 A. It's conceivable.

24 Q. And it's medically possible to have both a fresh  
25 bleed and a rebleed at the same time; correct?

Judy A. DelCogliano  
Official Senior Court Reporter



*(Leestma - Defendant - Cross)*

2208

1 A. I wouldn't disagree with that. That's okay.

2 Q. And you say a baby thrown onto a soft mattress,  
3 that's not enough force to cause a subdural?

4 A. It appears not. As I said before, these kinds of  
5 scenarios have been measured and peak G-forces have been  
6 measured and compared with injury threshold and appears below  
7 those.

8 Q. But you are not a biomechanical engineer, now; are  
9 you?

10 A. I am not, no.

11 Q. And you would agree with me that there's no studies  
12 of infants thrown onto a bed to test this theory; correct?

13 A. As living babies, no.

14 Q. So, again, Doctor, would you agree with me that,  
15 again, you are working on an assumption?

16 A. We are using the best knowledge and statistical  
17 information that we have, and I'm just saying that the  
18 thresholds or the peak G-forces that can be generated by  
19 scenarios you have talked about do not appear to be sufficient  
20 to produce a subdural hematoma.

21 Q. But again, Doctor, this was never tested on real  
22 infants, obviously?

23 MS. EFFMAN: Objection, asked and answered.

24 THE COURT: Overruled.

25 Q. Correct?

*Judy A. DeCeglieano*  
*Official Senior Court Reporter*

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1           A. One has to be careful about assumptions. You just  
2           say what evidence do we have to go one step further and make a  
3           statement. We can't. We just say it doesn't appear that we  
4           are reaching an injury threshold by a scenario such that you  
5           have talked about. Is it possible that there could be somebody  
6           who would be injured by that? Of course, it's possible. We  
7           just don't know.

8           Q. My question is: You don't have any studies about  
9           infants being thrown onto a bed; correct?

10          A. As far as I'm aware, there are none that have  
11          reported incidents like this and then followed up by saying:  
12          "Here, look what happened."

13          Q. Now, Doctor, you said that this could not possibly  
14          have caused this child's trauma; correct?

15          A. I'm saying that this child, the evidence, the severe  
16          head trauma that occurred in this child is very low.

17          Q. Well, Doctor, would it be helpful for you to see the  
18          Defendant demonstrating how he threw his child?

19          A. No. It wouldn't help at all. I'm not -- I can't  
20          calculate G-forces. I cannot do those things here. All that  
21          has been done by other people, and demonstrations -- I'm  
22          probably not qualified to properly evaluate that. You would  
23          need somebody other than me.

24          Q. So, therefore, would you agree with me that you are  
25          not properly qualified to give an opinion as to whether this

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(Leestma - Defendant - Cross)

2210

1 Defendant, throwing his baby onto a mattress three times in  
2 four days from above his head, weighing almost 500 pounds, down  
3 onto this mattress -- are you qualified to say that that would  
4 not cause trauma?

5 A. I don't know. That would have to be absolutely  
6 tested, and I'm saying scenarios like that have been measured,  
7 and it appears that the peak G-forces that are capable of being  
8 generated that way are not sufficient to produce subdural  
9 hematomas, as far as we know.

10 Q. So, you are not qualified to give that opinion; are  
11 you, Doctor?

12 A. I could not make a judgment, based on the Defendant's  
13 statements, of whether that represents reality or not.

14 Q. Well, is that conduct you would advise parents to  
15 engage in?

16 A. Excuse me again?

17 Q. Is that conduct you would advise parents to engage  
18 in?

19 MS. EFFMAN: I object. That's argumentative,  
20 Judge.

21 THE COURT: Overruled.

22 Q. Would you advise parents to engage in that sort of  
23 conduct?

24 A. I don't advise parents to be stressing children in  
25 manners like that. I think that's risky behavior, and I

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A000002081

1 certainly don't recommend doing that.

2 Q. Risky of what?

3 A. What's that?

4 Q. Risky of what?

5 A. I'm sorry?

6 Q. What is that risky of, Doctor? You said it's risky  
7 behavior?

8 A. Well, you are introducing accelerated forces into a  
9 baby. If you missed and hit the wall or knocked off the bed or  
10 something, now you are into a whole different situation. All I  
11 can say is that is risky behavior, and I think that is common  
12 sense.

13 Q. And could lead to trauma?

14 A. It may lead to trauma.

15 MS. BOOK: Nothing further.

16 THE COURT: Ms. Effman, before you -- do you  
17 have some redirect?

18 MS. EFFMAN: Very, very short. Maybe we could  
19 take a break to stretch our legs. Would you like to take,  
20 maybe, five minutes?

21 THE COURT: Members of the jury, we will take a  
22 break for about ten minutes. Please do not discuss this  
23 case among yourselves or with anyone else. Do not read or  
24 listen to any media accounts of this case. Do not visit  
25 any premises involved in this case. Do not conduct any

Judy A. DelCogliano  
Official Senior Court Reporter

(Leestma - Defendant - Redirect)

2212

1 research regarding this case. Do not request or accept  
2 any payment in return for supplying any information  
3 regarding this case. Do not make any judgments regarding  
4 this trial until you have heard all of the evidence and  
5 been instructed as to the law. And if anyone attempts to  
6 improperly influence you, please report it directly to me  
7 without discussing it with anyone else. We will take a  
8 break for ten minutes. Thank you.

9 (Jury excused.)

10 THE COURT: Before we break, Doctor, I want to  
11 remind you again during the break, since you are a sworn  
12 witness, please do not discuss your testimony. Thank you,  
13 Doctor.

14 (Brief recess taken.)

15 (Whereupon, the jury entered the courtroom.)

16 THE COURT: Please be seated.

17 **REDIRECT EXAMINATION**

18 **BY MS. EFFMAN:**

19 Q. Just a few questions on redirect briefly. Referring  
20 you to the autopsy report which is already in evidence in this  
21 case, typically, when you do an autopsy report, Doctor, do you  
22 list what documents that you reviewed as part of your review of  
23 a case, if you are the one actually doing the autopsy? Is that  
24 standard procedure?

25 A. Usually not. Occasionally, in the preambles, so to

Judy A. DelCogliano  
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A000002083



1 speak, the autopsy pathologist may do that, but my experience  
2 says, usually, they don't. They will have something about an  
3 investigator, if there's a scene investigation, or if there's a  
4 little bit of hospital, they may give some preamble to their  
5 report, but usually, they don't go into detail.

6 Q. Now, Ms. Book asked you during cross-examination  
7 whether or not you -- whether Dr. Sikirica indicated in his  
8 report that he had reviewed a statement from a Wilhemina Hicks  
9 as part of writing his report. Are you aware of whether or not  
10 his report lists that he reviewed Wilhemina Hicks' statement?

11 A. I don't remember, no.

12 Q. Doctor, would referring to the autopsy report refresh  
13 your recollection?

14 MS. BOOK: Your Honor, I'm going to object to  
15 this question. That was not my question. The question I  
16 asked was whether he knew if Dr. Sikirica reviewed these  
17 things, not whether he elicited them in his report.

18 THE COURT: What is the question pending right  
19 now?

20 MS. EFFMAN: The question pending is -- Ms. Book  
21 seemed to indicate on cross-examination that Dr. Sikirica  
22 indicated in his report that he read Wilhemina Hicks'  
23 statement. In fact, the report doesn't reflect that. I  
24 want to ask the Doctor to refer to the report, and does it  
25 mention Wilhemina Hicks' statement as being one of the

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Official Senior Court Reporter

(Leestma - Defendant - Redirect)

2214

1 things he reviewed in writing his report.

2 MS. BOOK: I asked, Doctor, do you know that Dr.  
3 Sikirica read the statement of the mother, Wilhemina  
4 Hicks.

5 THE COURT: I will allow the -- I will overrule  
6 the objection and allow it.

7 Q. Would referring to the autopsy report refresh your  
8 recollection, Doctor?

9 A. Yes, it would.

10 Q. Reading on Page 5 of the record -- I would ask that  
11 you review that, and when you have had a chance to look at  
12 that, please look up, Doctor.

13 A. Okay. I've got that.

14 Q. Isn't it true, Doctor, that report does not indicate  
15 that he reviewed Wilhemina Hicks' statement as part of these  
16 autopsy reports?

17 A. It's not specific. It says copies of medical records  
18 were obtained, copies of the hospital --

19 Q. Let me stop you right there, Doctor. Does that  
20 report state he reviewed Wilhemina Hicks' statement?

21 A. No, it doesn't.

22 Q. Thank you, Doctor. In fact, in his report, Dr.  
23 Sikirica notes that there is evidence of chronic subdural  
24 hemorrhage; correct?

25 A. Yes.

Judy A. DelCogliano  
Official Senior Court Reporter

A000002085

1 Q. In fact, he notes that on a dura section -- which is  
2 one of the things you reviewed as part of this case; correct?

3 A. Correct.

4 Q. Are you aware that in this case that Drs. Edge and  
5 Waldman have testified that the subdural hematoma could be  
6 weeks or months old. Are you aware of that, Doctor?

7 A. Yes.

8 Q. And Doctor, as a neuropathologist, just like Dr.  
9 Sikirica, neither one of you treat patients; correct?

10 A. I certainly don't, and it appears that Dr. Sikirica  
11 does not, either, but as my -- he could have a practice on the  
12 side, and he probably would be legally able to do so in New  
13 York. I don't know if he does. I think it would be unlikely.

14 Q. Ms. Book asked you several things about a book you  
15 had written, the first edition of your book, and you made  
16 certain comments to Ms. Book; that you revised some of the  
17 things in your second edition. Can you explain why you change  
18 certain comments from the first edition to the second edition,  
19 Doctor?

20 A. Sure. In the 20 years that elapsed, my viewpoints on  
21 many things have changed in response to literature and new  
22 information, and it would be totally inappropriate in a new  
23 writing exercise to ignore the wheels of progress and the  
24 knowledge and facts that have emerged since the last one. To  
25 repeat the old stuff would be professionally ridiculous. The

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*(Leestma - Defendant - Redirect)*

2216

1 world is flat. Why continue to write about that when you know  
2 it's not true? So, obviously, everybody goes on a learning  
3 curve. So do I. And in writing a book, one must take  
4 awareness of the movement of thought, knowledge, information  
5 and deal with that, which I did.

6 Q. And would that be because science, as many things,  
7 evolves over time; correct?

8 A. Absolutely. More information has come in that spoke  
9 to or impinged upon some important things in that old book and,  
10 frankly, in view of new information, is wrong.

11 Q. And how much time elapsed or spanned between the  
12 first edition and the second edition?

13 A. About 20 years.

14 Q. And once you finish writing a book and you submit it  
15 to publisher, what is the turnaround time in actually having  
16 the book published, on the shelf, ready to be purchased or sold  
17 to people or stores?

18 A. In this one, modern publishing is amazing; got a  
19 manuscript to the publishers, and I think it was about four  
20 months later, we had a book. This is with proofreading and  
21 everything. So, many times, they sit there and sit there and  
22 sit there. I have had that experience. But this one was as  
23 fast and expeditious as I know.

24 Q. And Doctor, Ms. Book referred to Page 273 of your  
25 book on the topic of subdural hematomas and subdural adhesions.

*Judy A. DelCogliano*  
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A000002087

1 At least you have had two purchases of your book as a result of  
2 this case, Doctor. But she read to you a portion of the page,  
3 but what she did not finish reading to you is.-- under the  
4 section, Doctor, do you state that, "In addition to birth  
5 trauma and molding of the head, which can cause subdural  
6 hematomas, bleeding disorders and sepsis and vascular anomalies  
7 may also cause subdural bleeding." Did you write that in your  
8 book?

9 A. Yes, right. I should also point out that in the  
10 book, there are a number of places through the book where  
11 subdural hematomas are discussed, not just in one chapter, and  
12 because it's a complicated subject, there are many aspects of  
13 this process which were discussed and talked about that I hope  
14 paint a fair picture of what this entity is about.

15 Q. In the chest x-rays that you have been given to  
16 review from one taken at Samaritan Hospital, one taken at  
17 Albany Medical Center, isn't it true, in fact, there's no  
18 evidence of aspiration in either of those x-rays? Is that  
19 correct, Doctor?

20 MS. BOOK: Objection, leading.

21 THE COURT: Sustained.

22 Q. Doctor, are you aware of any evidence in any of the  
23 x-rays in this case, of the chest, of any evidence of  
24 aspiration?

25 A. None was reported.

Judy A. DeCeglieano  
Official Senior Court Reporter



(Leestma - Defendant - Redirect)

2218

1 Q. And is there any evidence in the autopsy report of  
2 aspiration?

3 A. I don't believe those words were used. And in  
4 looking at the evidence, the kind of lung changes that were  
5 seen in this autopsy would not be typical for aspiration, which  
6 means pulmonary hemorrhage from the acid that comes from the  
7 stomach, and I didn't see any evidence of that.

8 Q. Ms. Book asked you some questions about fresh  
9 bleeding. Can fresh bleeding be caused by problems with  
10 coagulopathy?

11 A. Fresh bleeding anywhere, subdural included.

12 Q. And as discussed earlier, Doctor, did this child have  
13 problems with coagulopathy?

14 A. Of course, in spades, very much so.

15 Q. Is that, in fact, documented in the records of Albany  
16 Medical Center?

17 A. Correct.

18 Q. And, in fact, isn't it true, Doctor, that the CAT  
19 scan you displayed here today shows very little evidence of  
20 bleeding?

21 A. Yes. There is evidence of chronic bleeding and the  
22 reactions and repair from that, but the amount of actual recent  
23 bleeding - that is, within some days of death - is really only  
24 in the right posterior, kind of puddled there, and that  
25 wouldn't amount to very much.

Judy A. DelCogliano  
Official Senior Court Reporter

A000002089

1 Q. And in terms of posterior fossa, Doctor, does an  
2 ultrasound show bleeding in the posterior fossa at ten days of  
3 life?

4 A. None was reported. The study was said to be within  
5 normal limits.

6 Q. In fact, would an ultrasound, at ten days of life,  
7 would that equipment or that procedure cover the area of the  
8 posterior fossa?

9 A. Sometimes imaging down in that area is kind of at the  
10 end of the food chain, so to speak. It's not closest to the  
11 sensor, and it's conceivable that things could be missed there.  
12 I'm not an ultrasonographer. So, I don't know the limits of  
13 the technology, other than having heard people talk about it  
14 and read about it and seen these studies. As I indicated, it's  
15 possible to have a so-called negative study but still have  
16 something that proved to be there.

17 Q. And certainly, Doctor, bleeding in the posterior  
18 fossa, is that a kind of bleeding that accompanies some at  
19 vaginal childbirth?

20 A. Say that again. I'm sorry.

21 Q. In terms of bleeding during childbirth, is the  
22 posterior fossa one of the places where you can find bleeding  
23 in the brain or in the intracranial area during childbirth?

24 A. That's correct because, apparently, the way the dura  
25 folds around and forms the tentorium, the hole where the brain

Judy A. DelCogliano  
Official Senior Court Reporter

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*(Leestma - Defendant - Redirect)*

2220

1 stem goes through, is an area that stresses of molding, and  
2 deformation of the skull could impinge there, and that's where  
3 bleeding seems to be when it is observed.

4 Q. Can subdural bleeding due to gravity flow into the  
5 posterior fossa?

6 A. Sure. It will get there. The problem is you have  
7 bleeding in the dura itself, which can go this way, leak out  
8 that way or go in the other direction, ultimately dumping some  
9 blood into the subdural compartment that can redistribute  
10 itself in lots of places.

11 Q. In terms of slides that you were shown, the  
12 microscopic section you showed in this trial, in terms of the  
13 layers of the chronic subdural hematoma --

14 A. Right.

15 Q. In terms of the age of that based on the number of  
16 layers, Doctor, how old is that chronic subdural hematoma?

17 A. Takes you back pretty close to birth. The problem  
18 is, we don't have a good way to say that's exactly  
19 three months, four days, whatever it is. The layers, though,  
20 each one of those takes several weeks to reach that level of  
21 maturity, and you add them up; you are there. You are back in  
22 the perinatal period.

23 Q. Since we know we have a four-month-old child we are  
24 dealing with, certainly, Doctor, several months takes us to the  
25 time of birth; correct?

*Judy A. DelCogliano*  
*Official Senior Court Reporter*

A000002091

1 A. Yes.

2 MS. EFFMAN: One moment, Judge. Okay. No  
3 further questions.

4 **RECROSS-EXAMINATION**

5 **BY MS. BOOK:**

6 Q. Just a couple questions.. Doctor, the autopsy report,  
7 it doesn't say the subdural hematoma went back to birth from  
8 Dr. Sikirica, now; does it?

9 A. I don't think that was -- he made any such statement.  
10 He just simply mentioned there was chronicity, and that was it.

11 Q. You read his testimony; correct?

12 A. Yes.

13 Q. Do you recall reading he said it went back two months  
14 at most?

15 A. I'm trying to remember the words, and I don't -- I  
16 think he was asked a question like that and said it was  
17 possible.

18 Q. Okay. And you said there was no aspiration reported.  
19 Is that correct?

20 A. Well, at least -- it's certainly not mentioned on the  
21 radiology reports and, frankly, I don't recall it being  
22 mentioned anywhere.

23 Q. But you -- well, was it mentioned in Dr. Sikirica's  
24 testimony?

25 A. I know he was of the opinion that that may be

Judy A. DelCogliano  
Official Senior Court Reporter

(Leestma - Defendant - Recross)

2222

1 important, and I don't know the evidence for it.

2 Q. And to be clear, part of that history comes from the  
3 parents, correct, as to whether or not aspiration may have  
4 occurred?

5 A. Well, sometimes. I mean, if there's been vomiting  
6 and, you know, formulas coming out of nose and then there's  
7 coughing and choking, I guess one could impute that aspiration  
8 had occurred. But more often, that's a clinical judgment and  
9 can occur, certainly, in an acute life-threatening event, which  
10 is what happened to this child, which is how you describe it.  
11 Aspiration can occur there. I just didn't see any evidence of  
12 it. That's all.

13 Q. And, likely, it would have occurred at home prior to  
14 coming to the hospital. Is that correct?

15 A. Yes. I'm trying to -- ask me that again. I want to  
16 be sure.

17 Q. Likely, the aspiration would have occurred at home  
18 prior to coming to the hospital; correct?

19 A. It certainly can.

20 Q. Okay. And just to be clear, you didn't read the  
21 one-page statement of the father about the events of [REDACTED]  
22 [REDACTED] right?

23 A. Right.

24 Q. You didn't read the ten-page statement; right?

25 A. You mean the emergency --

Judy A. DelCogliano  
Official Senior Court Reporter

A000002093



1 Q. No. I'm talking about the child's father's ten-page  
2 version of what happened, to include that, after one of the  
3 times he threw the baby down on the bed, the baby was wheezing  
4 badly?

5 A. Yes, I recall that.

6 Q. You didn't read that; did you?

7 A. I recall that being made but, again, I don't know  
8 what that means, whether that means there's been some  
9 aspiration or not.

10 Q. So, you are not sure, fair to say, whether or not  
11 aspiration occurred?

12 A. Right.

13 Q. And you said there was really not a lot of blood  
14 noted in the baby's brain. Is that what you said?

15 A. There was what? Say again. I'm sorry.

16 Q. Not -- there wasn't much blood noted in the baby's  
17 brain?

18 A. Yes, correct, correct.

19 Q. So, would you agree with me that the autopsy report  
20 says there was 60 milliliters of subdural blood that came out?

21 A. That's the fluid and the bloody fluid; certainly, 60  
22 ml's were collected, and that wouldn't be out of keeping with  
23 what was in the fluid collections. Now, whether that was all  
24 blood, blood with fluid -- I mean, they say blood but --

25 Q. Well, Dr. Sikirica, who was actually there and

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Judy A. DelCogliano  
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(Leestma - Defendant - Recross)

2224

1 suctioned the blood out, correct, he recorded it as blood, not  
2 bloody fluid. Is that right?

3 A. Well, then, this is material that would have had to  
4 have accumulated after the child was admitted to the hospital,  
5 because it's not there within three hours of admission.

6 Q. So that your testimony is that that's not blood in  
7 the CAT scan?

8 A. There is some small amount that I pointed out, would  
9 be blood-tinged fluid. I'm sure if one were to collect that,  
10 and if there were 60 milliliters of blood in this child's head  
11 at the time of autopsy, it had to have come after that CAT scan  
12 was taken.

13 Q. Well, you said you read Dr. Waldman's testimony;  
14 right?

15 A. I read his transcript, yes.

16 Q. And were you familiar with the fact that Dr. Waldman,  
17 a neurosurgeon, said that that was blood in that child's head  
18 on the CAT scan, not a fluid?

19 A. Well, I would certainly want to ask him a few  
20 questions; point the blood out to me. What would it look like  
21 if it were a hundred percent blood or five percent? And that  
22 would be an issue that I think would need to be cleared up. If  
23 he said there was a lot of blood in this kid's head, I would  
24 respectfully disagree. It's not there.

25 Q. So, your answer is yes; you are familiar with the

Judy A. DeCagliano  
Official Senior Court Reporter

A000002095

(Leestma - Defendant - Redirect)

2225

1 fact that Dr. Waldman, a neurosurgeon, said that was blood?

2 A. If he made that statement and said that this kid's  
3 head had blood in it, I would beg to differ. . .

4 MS. BOOK: Thank you.

5 REDIRECT EXAMINATION

6 BY MS. EFFMAN:

7 Q. Doctor, there's no history in the record -- strike  
8 that. Doctor, there's no history from the mother, in the  
9 records of Samaritan Hospital or Albany Medical Center, that  
10 she reported the child aspirated. Is that correct?

11 MS. BOOK: Objection, leading.

12 THE COURT: Sustained.

13 Q. Doctor, did you see any reports of the Samaritan  
14 Hospital or Albany Medical Center records concerning the mother  
15 making any reports about aspirating?

16 A. No.

17 Q. And in your review of the records from Samaritan  
18 Hospital and Albany Medical Center, did you see any reports  
19 whereby the mother reported or complained the child had been  
20 wheezing?

21 A. No.

22 MS. EFFMAN: No further questions.

23 RECROSS EXAMINATION

24 BY MS. BOOK:

25 Q. And Doctor, did you know that the Defendant was alone

Judy A. DeCeglieano  
Official Senior Court Reporter

A000002096

(Leestma - Defendant - Recross)

2226

1 with the baby at the time that he was throwing him around on  
2 the bed?

3 MS. EFFMAN: I would object to the form of that  
4 question, Judge.

5 THE COURT: Sustained.

6 Q. Doctor, did you know that when Mr. Thomas admits that  
7 he was throwing the baby down on the bed three times within  
8 four days, that he was alone, and that the mother was not in  
9 the room?

10 MS. EFFMAN: Same objection, Judge.

11 THE COURT: Overruled this time.

12 A. I don't know what the details of that are. I'm told  
13 that he had admitted to throwing the baby down onto the  
14 mattress a number of times. Exactly how many times and all the  
15 details, I don't know that and never took the time or effort to  
16 look into that or try to evaluate it. I was simply looking at  
17 the scenarios that were presented and what we could know about  
18 them and what is known about the science behind it. That's all  
19 I know.

20 Q. Doctor, to say you are going to rule out trauma,  
21 wouldn't it be important to read about the traumatic event?

22 A. The perspective when I look at cases like this, and  
23 this is no exception, are from the point of view of the  
24 pathologist. What is there? What objective evidence is there?  
25 And then someone may advance various scenarios or theories,

Judy A. DelCogliano  
Official Senior Court Reporter

A000002097

1       whatever, and that has to be weighed against the evidence that  
2       is there. And from my part of looking at this, I do not see  
3       trauma of a significant degree in this baby. I see sepsis,  
4       bacterial infection, shock, coagulopathy. That's what I see.  
5       I don't see the trauma that is said to be so severe that it  
6       killed this child.

7               Q. And that's your opinion without having read anything  
8       about the traumatic events from the father's own mouth; right?

9               MS. EFFMAN: Objection, asked and answered.

10              THE COURT: Overruled.

11             A. I have to, again, look at -- the proof of the pudding  
12       is in the tasting. What is the traumatic event that is there?  
13       If someone alleges various things, and I cannot see a  
14       counterpart of that in the autopsy, what am I to do? I can  
15       only can view this scenario through the lens of my discipline,  
16       my confidence and so forth. Show me the trauma. I do not have  
17       a major traumatic evidence in the autopsy. What I see is a  
18       medical condition, an infectious disease process. And is  
19       trauma buried in there somewhere? It could be, but it's  
20       certainly not the primary event or the primary process.

21             Q. Well, Doctor, you just testified that you weren't  
22       really qualified to give an opinion on that trauma; right?  
23       Didn't you just testify to that 20 minutes ago?

24             A. Let's define the limits of that.

25             Q. Doctor, I asked you a question. Did you just say

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Judy A. DeCagliano  
Official Senior Court Reporter

(Leestma - Defendant - Recross)

2228

1 that 20 minutes ago?

2 A. To evaluate -- if somebody demonstrated something to  
3 me, I would not wish to go there, because I cannot quantify  
4 that. I would leave that up to a biomechanics individual, who  
5 could evaluate those things and probably has.

6 Q. And you didn't go there; right?

7 A. That's right.

8 MS. BOOK: Nothing further.

9 REDIRECT EXAMINATION

10 BY MS. EFFMAN:

11 Q. Doctor, demonstration or not, that doesn't change  
12 your opinion about the cause of this child's death; correct?

13 MS. BOOK: Objection, leading.

14 THE COURT: Sustained.

15 Q. Whether a demonstration is performed or not, Doctor,  
16 does that have any impact on your opinion as to cause of death  
17 in this case?

18 A. As I indicated, no.

19 Q. And you didn't go the route that Ms. Book is talking  
20 about, because the objective medical evidence doesn't go that  
21 direction; correct?

22 MS. BOOK: Objection, leading.

23 THE COURT: Sustained.

24 Q. Doctor, you did not -- Ms. Book referred to  
25 demonstrations. Did you feel the need to go to demonstrations

Judy A. DelCogliano  
Official Senior Court Reporter

A000002099



1 based on the other objective evidence you saw in the records,  
2 the slides and the autopsy report?

3 A. I could find no benefit in that, because it would be  
4 playing on impressions, rather than science and method.  
5 Biomechanics individuals would be able to evaluate those  
6 things, demonstration, whether I know them to be true or not.  
7 All I can say is against the testing that I'm aware of and  
8 seen, got all the data on, it doesn't appear that those injury  
9 scenarios reach an injury threshold. And to look at a  
10 demonstration or something like that, how could I -- how could  
11 I impugn what G-forces are there. I don't have instruments.  
12 It would be a totally unprofessional exercise.

13 Q. In fact, does the objective medical evidence in those  
14 records support your opinion as to cause of death, Doctor?

15 A. The objective evidence in the autopsy, which can't be  
16 fudged. I'm just saying, as I said before, the end point is,  
17 if allegations -- and allegations are made that this was a  
18 traumatic death. Show me the trauma. I don't see it. I can't  
19 see it through the overwhelming pathology due to infection.

20 MS. EFFMAN: Thank you, Doctor.

21 MS. BOOK: Nothing further.

22 THE COURT: Doctor, you may step down. Thank  
23 you. Okay. Members of the jury, we are going to break  
24 for the day at this time. As I was telling you yesterday  
25 or the day before, sometimes the need arises for the Court

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A000002100